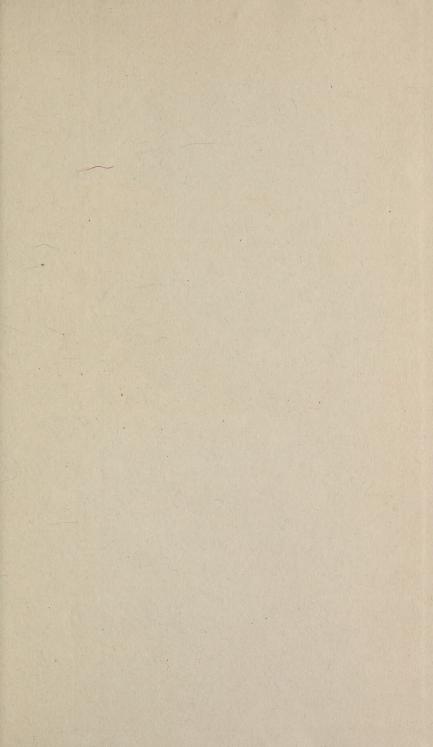
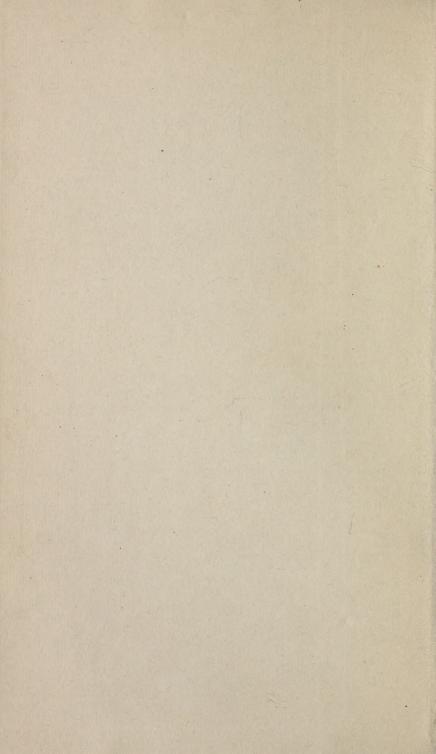


#### EX LIBRIS

THE COOPER UNION
Museum Library
THE GIFT OF

Robert W. Chanler





TOTAL PROPERTY OF THE PARTY OF A CONTRACTOR OF THE PROPERTY OF THE \* Englishment Committee 

## REVERENDISSIMO IN CHRISTO PATRI,

# JOANNI MOORE,

PROVIDENTIA DIVINA,

## ARCHIEPISCOPO CANTUARIENSI,

ANIMI CANDORE,

INGENII SUAVITATE,

VITÆ INTEGRITATE

SPECTATISSIMO,

TERTIUM HUNC

## NATURÆ VIVARII

FASCICULUM,

CULTU OMNI ET OBSERVANTIA,

D. D. D.

GEORGIUS SHAW,

FREDERICUS P. NODDER.

THE MOST REVEREND FATHER IN GOD,

# JOHN,

BY DIVINE PROVIDENCE,

ARCHBISHOP OF CANTERBURY,

&c. &c. &c.

THIS THIRD VOLUME

OF

THE NATURALIST'S MISCELLANY

IS,

WITH THE MOST PROFOUND HUMILITY, INSCRIBED,

BY

HIS GRACE'S MOST DEVOTED SERVANTS,

GEORGE SHAW, FREDERICK P. NODDER.

Milenon temperatural .

QL 46 \$53 1789 V.3 -HMAB

# CERTHIA COCCINEA.

<del></del>

CHARACTER GENERICUS.

Rostrum arcuatum, tenue, subtrigonum, acutum Lingua acuta.

Pedes ambulatorii.

Lin. Syst. Nat. p. 184. Picæ.

CHARACTER SPECIFICUS, &c.

CERTHIA COCCINEA, alias caudaque nigris, rostro pallido.

CERTHIA COCCINEA.

Gmel. Syft. 1. p. 470.

CERTHIA VESTIARIA.

Lath. Ind. orn. p. 282.

Certhia Coccinea, in infulis Sandvicenfibus copiofiffima, rostrum gerit prælongum, incurvum et pallidum: tota avis coloris est læte rubri, exceptis alis caudaque nigris: tabula illam exprimit magnitudine naturali: interdum utrinque juxta humeros macula alba conspcitur.







# SCARLET CREEPER.

#### GENERIC CHARACTER.

Bill flender, incurvated, sharp pointed.

Tongue differing in shape in the different species.

Legs moderately stout.

Toes placed three before, and one behind; back toe large: claws hooked and long.

Linnæus. Latham. Pennant.

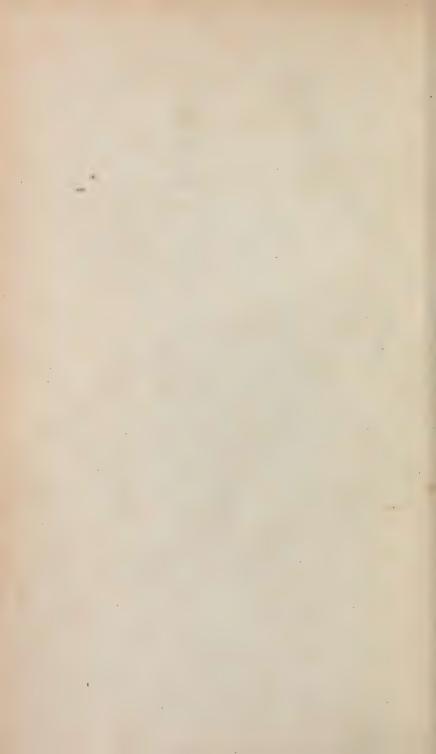
### SPECIFIC CHARACTER, &c.

SCARLET CREEPER, with black wings and tail, and pale bill.

HOOK-BILLED RED CREEPER.

Lath. Synops. 1. p. 704.

The Scarlet Creeper is a native of the Sandwich Islands, where it is extremely numerous. The bill in this species is very long, hooked, and of a pale colour. The whole bird is of a vivid red, except the wings and tail, which are black. In some individuals a white spot appears on each side the shoulders.



## RANA CORNUTA.

<del></del>

CHARACTER GENERICUS.

Corpus tetrapodum, ecaudatum, nudum.

Lin. Syft. Nat. p. 354.

CHARACTER SPECIFICUS, &c.

RANA PALPEBRIS CONICIS.

Lin. Syst. Nat. p. 356.

BUFO CORNUTUS s. Spinofus Virginianus.

Seb. 1. t. 72. f. 1. 2.

BUFO CORNUTUS.

Laur. amph. p. 25. n. 2.

Qui quæstioni respondere vellet, quidnam animal effinxerit natura desormissimum? vix hæreret ranam cornutam quasi exemplum insolitæ turpitudinis seligere; quæ sane vel ipsa Pipa seu Surinamensi soedior est et monstrosior. Non possumus illam non horrescere et aversari frontem intuentes quasi cornua gerentem, summas nempe palpebras in mucronem callosum productas, orisque immodicam amplitudinem, hiatumque ultra solitum immanem. Rarissima est rana cornuta. Americam Septen-

Septentrionalem inhabitat, et in Virginia potiffimum invenitur. Color generalis est susceptiones, fasciis latis albicantibus longitudinalibus per dorsum ductis. Cutis quoque corporis superioris tuberculis aculeatis contecta est. Crura susceptiones aculeatis contecta est.





### HORNED FROG.

O+\*\*\*\*\*\*\*\*\*\*\*\*\*

GENERIC CHARACTER.

Body four-footed, naked, without tail.

Lin. Syst. Nat.

SPECIFIC CHARACTER.

FROG with horned eyelids.

Should inquiry be made, which is the uglieft animal yet known to exist? the creature here represented might perhaps with justice be proposed as an answer: an animal of such prodigious deformity as even to exceed in this respect the Surinam toad, or Rana Pipa. What gives an aspect so peculiarly forbidding to the present species is the horned appearance of the front, which is caused by a sharp-pointed elongation of the upper part of each eyelid into a callous process resembling a horn: to this may be added the excessive width of the mouth, which exceeds that of every other known species of Rana. This animal is extremely rare, and is a native of some parts of North America. It is principally found in Virginia. Its general colour

is a greenish brown, with broad longitudinal stripes of whitish on the back, and the skin on the upper part of the body is covered with a kind of spiny tubercles: the legs are transversly fasciated with brown.

### PAPILIO HELENA.

#### CHARACTER GENERICUS.

Antennæ apicem versus crassiores, sæpius clavatocapitatæ.

Alæ (fedentis) erectæ furfumque conniventes. (Volatu diurno.)

Lin. Syst. Nat. p. 744. Eq. Tr.

## CHARACTER SPECIFICUS, &c.

PAPILIO alias dentatis atris concoloribus: posticis disco communi aurato.

Lin. Syst. Nat. p. 748.

Clerk. ic. t. 22. f. 1. Fabr. Spec. Inf. 2. p. 10.

Papilionem Helenam, vix ab ullis exoticis pulchritudine fuperatum, diftinguit aterrimus et quafi holofericus alarum color; quarum fibræ virgis nonnullis pallidioribus et cinereis notantur. Alis utrifque inferioribus fummum decus affert macula ampliffima infigniter aureo-flava, venifque nigris pulcherrifme striata. Americam australem incolit Papilio Helena, et præcipue in Surinamia invenitur.







London, Tablished , Luy! 14 799 by F. J. Nolder & P. 1. 1. Bower Street.

#### HELENA.

OR, THE

## BLACK-AND-GOLD BUTTERFLY.

<del></del>

#### GENERIC CHARACTER.

The Antennæ, or Horns, thickening towards the upper part, and generally terminating in a knob, or club-shaped tip.

The Wings (when fitting) erect, and meeting upwards. (Flight diurnal.)

#### SPECIFIC CHARACTER.

BLACK BUTTERFLY with both furfaces alike; the difk of the lower wings of a brilliant gold colour.

The Papilio Helena, one of the most beautiful of the exotic butterslies, is distinguished by the deep velvet black of its wings, which are marked by a few lighter or greyish stripes accompanying the fibres; while the lower wings are each ornamented by a very large spot or patch of the richest golden-yellow, traversed by several veins of black. It is a South-American insect, and is principally found at Surinam.



## MEROPS SUPERBUS.

#### CHARACTER GENERICUS.

Rostrum curvatum, compressum, carinatum. Lingua apice laciniata. Pedes gressorii.

Lin. Syst. Nat. p. 182.

#### CHARACTER SPECIFICUS.

MEROPS RUBER, fronte, gula, uropygioque cæruleis, rectricibus duabus intermediis longioribus.

Quanquam Meropi Brasiliensi Lathami affinis admodum sit hæc avis, adeo tamen coloribus discrepat, ut pro distincta specie jure habeatur. Illam igitur diverso nomine signavi. In Museo Britannico affervatur pulchrum specimen unde delineata est hæc nostra sigura.







## SUPERB BEE-EATER.

<del></del>

#### GENERIC CHARACTER.

Bill curved, compressed, carinated, and sharp pointed.

Tongue (generally) laciniated at the tip.

Feet grefforial, i. e. three toes forward and one backward; and the three lower joints of the middle toe closely joined to those of the outmost.

#### SPECIFIC CHARACTER.

RED BEE-EATER, with front, throat, and rump, blue; and the two middle tail-feathers longer than the rest.

The colours of this bird differ so much from those of the Merops Brasiliens of Mr. Latham, to which it is yet extremely nearly allied, as to justify its being regarded as a distinct species. I have therefore called it by a different title. The beautiful specimen from which the present sigure was taken is preserved in the British Museum.



## MADREPORA FUNGITES.

CHARACTER GENERICUS.

Animal Medusa.

Corallium cavitatibus lamellofo-stellatis.

Lin. Syst. Nat. p. 1272.

CHARACTER SPECIFICUS, '&c.

MADREPORA fimplex acaulis convexa, fubtus plerumque concava, interdum convexa et pedunculata.

FUNGUS LAPIDOSUS.

Clus. exot. 125. f. 1.

FUNGUS LAPIDEUS.

Buch. hift. 3. p. 801. f. 1, 2.

Cum anteactis temporibus, dormiret recentiorum philosophorum curiosa sedulitas, quæ jam fere per totum orbem feliciter diffunditur; nugis et sabellis anilibus sæpius credebatur, vetuitque plurimorum hominum hebes incuria ut vel ampla esset speciminum supellex, vel etiam nactorum plena et genuina descriptio. In plantis igitur et animalibus indies erratum est. Radix filicis in septentrionali Asia satis vulgaris naturam cum quadrupede participare diù censebatur, vocabaturque communiter

niter agnus vegetabilis. Gryllorum certæ species exoticæ quibus alæ funt amplæ, virides, et venofæ, folia animata habebantur: nec defuere qui serio et pertinaciter afferuerunt arborum quarundam Indicarum et Americanarum, fimul ac deciderant folia, fubito alis pedibusque gaudentia circa ipsam arborem volitare. Corallium quoque, seu Madreporam in tabula depictam, fungum effe, five agaricon in lapidem conversum opinabantur tunc temporis phyfici. Ignofcendum est sane huic errori potius quam aliis multis, cum Madrepora agarico fimillima plerosque spectatores (exceptis paucis, quibus res penitus scrutari cordi est) posset decipere. Comperti funt tandem in India Orientali, ubi frequentior est Madrepora, seduli examinatores, esse eam fulcrum seu habitaculum substantiæ gelatinosæ et animatæ, forma ad Medulas ut vocantur, orbiculatas et depressas accedentis. Efficit animal mirandum hoc domicilium, materiem calcariam glutinosam ab omni corporis parte copiose exprimendo; ita ut sulci seu depressiones in Madrepora, lamellis totidem acutis et radiatis in ipfius animalis corpore respondeant; quod cum sit tenerrimum, aeri expositum in meram pelliculam paucis horis decrescit, nec nisi in aqua marina, qua nascitur, probe potest examinari. In nonnullis speciminibus ex parte inferiore, seu concava, proles minor varia protruditur. In India præcipue Orientali invenitur Madrepora Fungites, crescitque interdum ad magnitudinem sex unciarum in diametro, interdum vix unam superat. Color albus non caret elegantia, totaque superficies exterior tuberculis minutiffimis leviter exasperatur. Lamellarum margines interrupto ordine ferratæ funt.







Loudon , Published Sone 19 1791, by F. P. Nodder & G. N. is Brewer Siver.

# MUSHROOM MADREPORE.

<u></u>

### GENERIC CHARACTER.

The Animal refembling a Medufa.

The Coral marked by lamellated ftar-shaped cavities.

### SPECIFIC CHARACTER.

MADREPORE with rifing or convex laminæ above, generally concave and papillose beneath, and sometimes footstalked.

Before that fpirit of inquiry which characterizes the modern cultivators of natural history began to diffuse itself in Europe, innumerable errors were committed in the histories both of animals and vegetables, while the general neglect with which the major part of mankind regarded subjects of this nature, still increased the difficulty of obtaining proper specimens and descriptions of several of the most curious and interesting productions of nature. The root of a species of fern, not uncommon in the northern parts of Asia, was supposed to partake of the nature of a quadruped, and was dignified by the title of the vegetable lamb. Some of the locust tribe with large green veiny wings were believed

to be animated leaves; and there were not wanting those who were ready to vouch the certainty of the leaves which fell from feveral trees in India and America becoming fuddenly furnished with legs and wings, and foon after fluttering round the branches of the tree which gave them birth; while the coral which forms the fubject of the present plate was regarded as a species of petrified mushroom. It must be confessed that of all erroneous ideas this was one of the most plausible; for fo very striking is the general resemblance which this coral bears to the genus Agaricus, that it is impossible not to be forcibly impressed with the similarity of the structure. From observations, however, which have been made in those parts of India where it is commonly found, it appears to be the production of an animal of a foft or gelatinous nature, and which bears a general affinity to the shape of the orbicular depressed Medusæ or Sea-Blubbers. The animal forms this curious fulcrum or habitation by fecreting a copious deposition of calcarious matter from every part of its body, and the fulci or furrows in the Madrepore answer to so many sharp radiated laminæ of the creature's body. So tender is this animal, that it collapses and shrinks to a mere pellicle when exposed for some hours to the air; fo that it is only in the fea-water that it can be viewed to advantage. Some specimens of this Madrepore are proliferous, or have young productions of the fame form growing from feveral parts of the concave or lower furface. The Madrepora Fungites is found of various fizes, from an inch to fix inches in diameter. Its colour is an elegant white, and every part of the external

external furface is roughened by fmall protuberances, and the edges of the lamellæ or gills are irregularly ferrated. It is principally found on the coasts of the East Indies.



## SCARABÆUS GOLIATUS.

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*** 

### CHARACTER GENERICUS.

Antennæ clavatæ capitulo fiffili. Tibiæ anticæ fæpius dentatæ.

Lin. Syst. Nat. p. 541.

CHARACTER SPECIFICUS, &c.

SCARABÆUS scutellatus, thorace inermi, clypeo bifurco.

Fabr. Spec. Ins. tom. 1. p. 14. Drur. Ins. 1. tab. 31. & 3. tab. 40. Voet. Scar. tab. 22. fig. 51.

Scarabæus Goliatus, fui generis fere rariffimus, Africam incolit, præcipue Guineam. Coloribus variat; thorace interdum rofeo nigris lineis variato, elytrifque purpureo-ferrugineis; interdum tum thorace tum elytris albido-flavescentibus, nigro interstinctis. In elegantissimo opere Domini Drury primo depicta est hæc scarabæi species.









## FORK-HEADED BEETLE.

<del></del>

### GENERIC CHARACTER.

Antenna divided at the tip, or head, into feveral lamellæ.

Tibia, or fecond joints of the fore-legs, generally toothed.

### SPECIFIC CHARACTER.

BEETLE with plain thorax ftriped with black, and forked head.

The Scarabæus Goliatus, one of the rareft of its genus, is a native of Africa, and is principally found in Guinea. It is a fpecies which varies much in colour; fome fpecimens having the thorax rofe colour, striped with black, and deep-ferruginous or purple-brown elytra, or wing-cases, while in other specimens both thorax and elytra are of a dull yellowish white, or cream-colour, striped and varied with black. This curious insect was first sigured in the elegant work of Mr. Drury.



## TROCHILUS MULTICOLOR.

### CHARACTER GENERICUS.

Rostrum subulato-filiforme, apice tubulato, capite longius: Mandibula superior vaginans inferiorem.

Lingua filiformis, filis duobus coalitis tubulofa. Pedes ambulatorii.

Lin. Syst. Nat. p. 189.

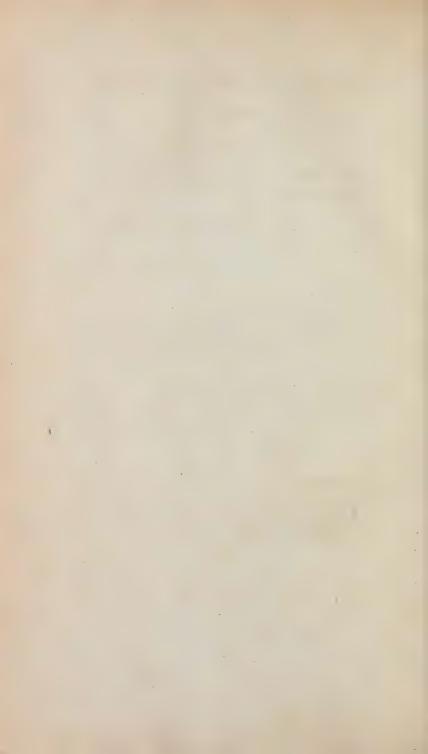
## CHARACTER SPECIFICUS, &c.

TROCHILUS curvirostris fuscus, vertice, gula, pectore, humerisque, viridi-aureis, abdomine rubro, genis cyaneis.

### TROCHILUS MULTICOLOR.

Lath. ind. orn. p. 308. Gmel. Syft. Nat. p. 490.

Trochilus Multicolor, variis ditiffimus coloribus, inter rariffimas fui generis species habetur. Depingitur figura nostra a specimine pulcherrimo quod suppeditavit Mufeum Britannicum. Americam Australem incolit hæc avicula.







# HARLEQUIN HUMMING-BIRD.

<u></u>

#### GENERIC CHARACTER.

Bill flender, tubular, the upper mandible fheathing the lower.

Tongue very long, miffile; formed of two conjoined cylindric tubes.

Toes three forward, one backward.

### SPECIFIC CHARACTER, &c.

Curve billed brown Humming-Bird, with goldgreen crown, throat, breaft, and fhoulders, red belly, and blue cheeks.

## HARLEQUIN HUMMING-BIRD.

Lath. Synops. 2. p. 760.

The Trochilus Multicolor, or Harlequin Humming-Bird, fo remarkable for the diverfity of its colours, is one of the rarest of its genus. The figure here represented is taken from the beautiful specimen in the British Museum. This bird is a native of South America.



### ISIS NOBILIS.

<del></del>

CHARACTER GENERICUS.

Stirps lapidea, rigida.
Flores Hydræ e poris lateralibus.

CHARACTER SPECIFICUS, &c.

ISIS stirpe corallina æquali continua, striis obsoletis obliquis, ramis vagis.

Lin. Syst. Nat. p. 1288.

CORALLIUM RUBRUM.

Bauh. pin. 366.

GORGONIA PRETIOSA.

Ellif. Zooph. p. 90.

Isis nobilis, seu Corallium vulgare rubrum, e substantiis illis marinis est quæ, communi sere physicorum recentium consensu, ab animalibus hydras seu polypos quodammodo referentibus essingi creduntur. Degunt hæc animalia in cavitatibus istis quæ in cortice corallii molli et subereo frequenter conspiciuntur; eorumque vestigia paulatim distantia punctisque similia in superficie etiam durissima imprimuntur, omnibus corallii ipsius ramusculis striis longitudinalibus ab ipsa basi extrinsecus notatis. Fatendum sane est non mediocri side opus esse ut omnia Lithophyta ab animalibus incolenti-

bus revera et omnino formari perfuafum habeamus. Cum vero nostrum non sit notissimas Domini Ellisii obfervationes in dubium vocare, gaudeant volumus lectores suis sententiis, statuantque ipsi an inter animalia an vegetabilia substantias hasce satius sit numerare: ad utraque enim miro modo videntur pertinere. Notandum est specimina corallii rubri, quo formosiora videantur, cortice exteriore, ut plurimum, denudari. Depingitur igitur ramulus cortice obductus juxta ipsam naturam. Fig. 2.





London Fallished Oor of og by F. F. Noddier if N. is Brewer Some.

# RED CORAL,

### 

### GENERIC CHARACTER.

The Coral having the habit or appearance of a plant.

The Stem, or internal part, differing in the different species, and generally either of a horny or a stony appearance.

The cortical part foft, and inhabited by animals refembling polypes.

### SPECIFIC CHARACTER, &c.

BRIGHT-RED STONY-BRANCHED CO-RAL, with longitudinal ftriæ.

### COMMON RED CORAL.

The Isis nobilis, or common red Coral, is one of those numerous submarine productions which, by the almost general consent of modern naturalists, are regarded as the fabrication of animals resembling polypes, which reside in the cavities so constantly seen in the soft or cortical part of the coral; and the impressions or vestiges of which are visible even on the surface of the hard part or the coral itself; being generally seated at distant intervals, and appearing like small impressed spots, while

the whole coral, throughout all its ramifications, is marked externally by longitudinal ffriæ proceeding from the very base itself. It must be candidly confessed that a good share of philosophical faith is necessary to reconcile us to the idea of all the coral tribe being entirely the work of animals: yet as we cannot prefume to controvert the well-known observations of Mr. Ellis, we shall leave our readers to their own opinions, and at perfect liberty to regard these curious substances either as belonging to the animal or vegetable kingdom, to both of which they feem to be strangely allied. It is necesfary to observe that the specimens of red coral as generally feen, have, in order to increase the beauty of their appearance, been deprived of their cortical or exterior coat. A branch in its natural state, or with its exterior coat, is represented at fig. 2. in the annexed plate.

# LACERTA VARIA.

<del></del>

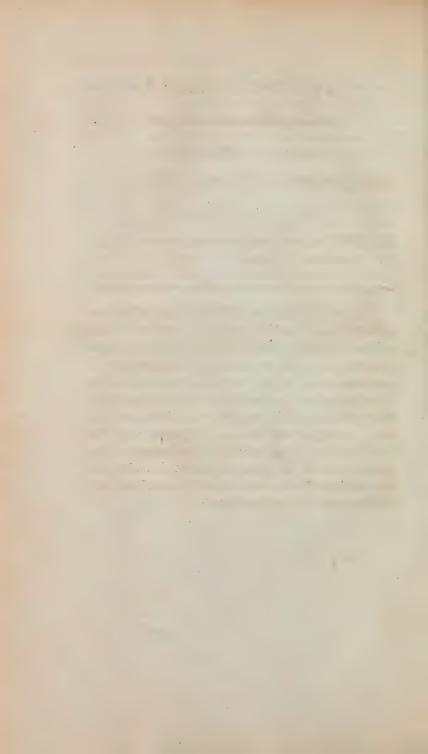
CHARACTER GENERICUS.

Corpus tetrapodum, caudatum, nudum.

CHARACTER SPECIFICUS,

LACERTA cauda longa carinata, corpore maculis transversis variis.

Tam prope accedit hæc lacerta ad illius fimilitudinem quam Linnæus nomine Monitoris descripsit, ut dubium forsan sit an species vere sit distincta, seu illius tantum varietas. Corpus uncias circiter quindecim longum est, caudaque multo longior. Color niger est, notis, striisque slavis, imparibus, per corpus transverse discurrentibus. Super crura sunt series transversæ macularum rotundarum, caudaque fasciis latis nigris slavisque alternatim interstinguitur. In nonnullis speciminibus color slavus pallidior multo est quam in aliis, et sere albescens. Plurima hujus lacertæ specimina novissimis a Nova Hollandia navigiis in Angliam illata sunt.





## VARIEGATED LIZARD.

心中中中中中中中中中中中中中中中中中中中中中中中中中中

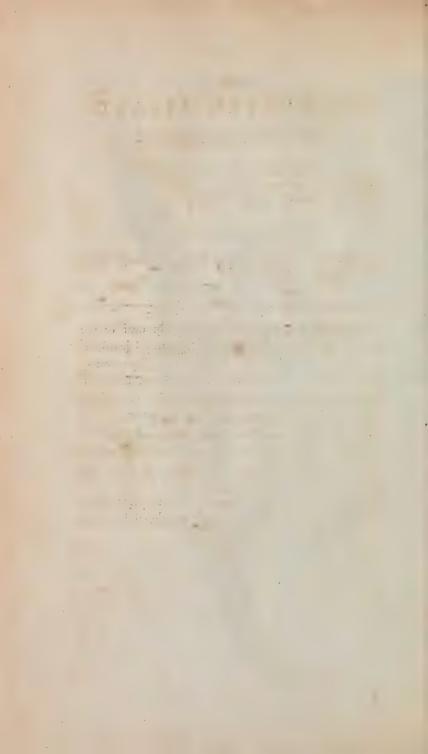
GENERIC CHARACTER.

Body four-footed, tailed, naked.

SPECIFIC CHARACTER.

LIZARD with long carinated tail, the body transversely variegated.

This Lizard approaches fo extremely near to the Lacerta Monitor of Linnæus, or Monitory Lizard, as to make it doubtful whether it be not in reality a variety of that species. The body is about fisteen inches in length, and the tail is considerably longer. The animal is of a black colour, variegated with yellow marks and streaks of different shapes, and running in a transverse direction. On the legs are rows of transverse round spots; and on the tail broad alternate bars of black and yellow. In some specimens the yellow is much paler than in others, and nearly white. Several specimens of this species were brought from New Holland during the late voyage from Botany Bay.



## TETRAO PORPHYRIO.

**•** 

CHARACTER GENERICUS.

Macula prope oculos nuda, papillofa.

Lin. Syst. Nat. p. 273.

CHARACTER SPECIFICUS, &c.

TETRAO VIOLACEO-NIGRICANS, viridi fuffufus, alis fusco-ferrugineis, crista compresso-erecta ferrugineo-rubente,

LE ROULOUL DE MALACCA,

Son. Voy. Ind. vol. 2. p. 174. pl. 100.

Genus Tetrao numerosum varias species complectitur quæ nominibus perdicum, urogallorum, coturnicum, &c. communiter vocantur; pertinetque ad divisionem gallinaceam, quæ scilicet continet omnes illas aves quæ forma vivendique modo ad gallum gallinaceum plus minus accedunt. Tetraonum plures exotici sunt; maxima pars extra Europam nutritur. Species de qua jam loquimur, ut sileamus inustatum colorem, generis sui est rarissima. Notandum præterea est characteres illi esse incertos; ut ad genus Columbæ non minus quam Tetraonis pertinere videatur; præsertim si specimen exficcatum inspicias. Figura hæc nostra ab ipsa ave viva sideliter depicta est. Palpebris peculiare quoddam est;

margo nempe crenis parvulis ruberrimis et exstantibus ornatus. Crista quoque mollissima et quasi serica. Peninsulam Malaccam, variasque Indiæ Orientalis insulas inhabitat Tetrao Porphyrio. Observandum est in aliquibus speciminibus, (maribus fortasse,) exstare in basi frontis setas aliquot nigras, quæ in hoc specimine defuere. Notandum quoque est hanc avem, quamvis in genere adeo diverso, in multis similem esse Cuculo Perse Linnæi.







## VIOLACEOUS PARTRIDGE.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### GENERIC CHARACTER.

Eyes (generally) bounded, either above or on one fide, by a granulated red skin.

Bill convex, short, and strong.

SPECIFIC CHARACTER, &c.

VIOLACEOUS - BLACKISH PARTRIDGE with a cast of green, ferruginous - brown wings, and compressed, upright, ferruginous - red crest.

LESSER-CROWNED PIGEON.

Lath. Syn. vol. 2. p. 622.

that

The numerous genus *Tetrao*, comprehending all the fpecies of Grous, Partridge, Heathcock, &c. belongs to the order called *Gallinæ*, or fuch as in their general characters and appearance make fome approach to the common Cock, or Phasianus Gallus of Linnæus. By far the major part of the Tetraones are exotic birds; and indeed most of them are extra-European birds. The present species, exclusive of its unusual colour and peculiar elegance, is likewise remarkable for being one of the rarest of the genus: it is also to be observed,

that from a kind of ambiguity in its appearance, it may feem to bear almost as much affinity to the genus Columba as to that of Tetrao; and indeed in a dried specimen it is not easy to decide with absolute precision to which genus it should with the greatest propriety be referred. The prefent figure was taken from the living bird, and exhibits with great fidelity its feveral characters. The eyelids are fingularly formed; being regularly furrounded by a feries of rifing crenatures of the most vivid scarlet. The crest also, which is of a structure peculiarly delicate, adds greatly to the beauty of the bird. It is a native of Malacca, and some of the Fast-Indian islands. It should be observed that in some specimens, (perhaps males,) a certain number of long, black, rifing briftles appear, feated at the base of the front: these in the present specimen were wanting. may be added, that notwithstanding the difference of its genus, this bird bears a striking affinity with the Cuculus Perfa of Linnæus.

## PHALANGIUM CANCROIDES.

CHARACTER GENERICUS.

Pedes octo.

Oculi verticis duo contigui, duo laterales. Frons antennis pediformibus.

Abdomen rotundatum.

Lin. Syst. Nat. p. 1028.

CHARACTER SPECIFICUS, &c.

PHALANGIUM abdomine obovato depresso, chelis lævibus: digitis pilosis.

Lin. Syst. Nat. p. 1028.

CHELIFER abdomine lineis transversis.

Geoffr. Paris. 2. p. 618.

SCORPIO MINIMUS.

Roefel. 3. Supl. t. 64.

Animalculum hoc, physicis diu cognitum, diversis temporibus ad diversa genera retulerunt entomologi. Laboriosus celeberrimusque Swammerdamus quasi scorpionis speciem descripsit. Idem secit Roeselius. Quanquam in editione duodecima Systematis Naturæ Linnæus in genere Phalangii posuerit, in Fauna tamen Suecica ab eodem auctore conscripta, inter acaros numeratur. Ingeniosus Degeer genus illi distinctum nomine Cheliseri

Cheliferi instituit. Fabricius denique in Systemate Entomologico iterum ad genus Scorpii amandavit, cui fortaffe conjunctius est quam ulli alii. Magnitudine multum variat hoc insectum: quæ enim in Anglia inveniuntur specimina, multo minora sunt quam in Sebæ, Swammerdami, et Roeselii operibus depicta. Figura microscopica in hac nostra tabula accuratissime delineatur. Altera quæ disjungitur, caput et thoracem amplitudine admodum aucta oftendunt, ut partes pectinatæ appareant; quæ quamvis situ diversæ, formam tamen fere eandem habent ac in scorpiis. Figura 1. magnitudinem naturalem infecti, ut in Anglia conspicitur, monstrat. Accusat hoc insectum Linnæus, sed (ut mihi videtur,) injuria, cutim interdum penetrandi, papulamque magnitudine pisi, summo cum dolore excitandi. Circa parietes antiquos, ut plurimum invenitur, et interdum inter papyram, &c. conspicitur. Inter insecta quoque rariora non immerito numeratur.







London , Fublished Nov. For 1995 , by F. F. N. Soddor & G. Nes Brenser Street.

#### THE

## CANCROID PHALANGIUM,

GENERIC CHARACTER.

Eight Legs.
Two vertical and two lateral Eyes.
Antennæ resembling legs,
Abdomen rounded.

### SPECIFIC CHARACTER.

PHALANGIUM with obovate depressed abdomen, and smooth chelæ, slightly hairy at the tips.

This little infect, which has long been known to naturalists, has been occasionally referred to very different genera. The celebrated and laborious Swammerdam has described it as a species of Scorpion. In the works of Roesel it is also regarded as a Scorpion. In the twelfth edition of the Systema Naturæ of Linnæus it is ranked under the genus Phalangium; while in the Fauna Suecica of the same author it is made an Acarus. The ingenious Degeer institutes for it a separate genus under the name of Chelifer. Lastly Fabricius in his Systema Entomologiæ has remanded it to the genus Scorpio, to which perhaps it is more nearly allied than to any other. This insect seems to vary considerably in size; those which

which are found in our own country being much smaller than the representations given by Swammerdam, Roesel, and Seba. The microscopical figure in the annexed plate is executed with the greatest accuracy. The separate figure represents the head and thorax very much magnified, in order to shew the pectinated parts, which though differing in situation, are nearly of the same form as in scorpions. Fig. 1. shews the natural size of the English specimens. Linnæus accuses it (I believe most unjustly,) of sometimes getting under the skin, and raising a painful tumour. It is generally sound on old walls, and sometimes amongst papers, &c., and is not a very common insect,

### AMPHISBÆNA ROSEA.

Var. A. Alba.

CHARACTER GENERICUS.

Annuli trunci caudæque.

Lin. Syst. Nat. p. 392.

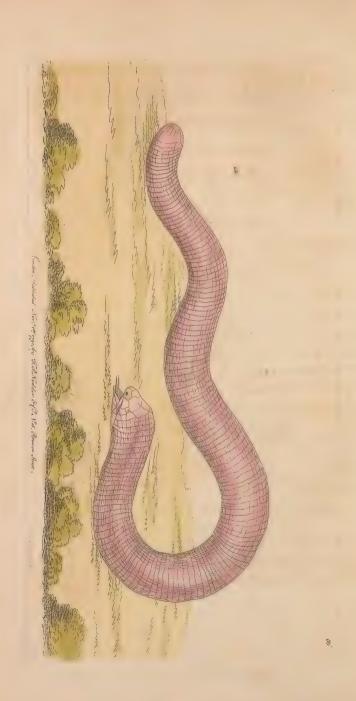
CHARACTER SPECIFICUS.

AMPHISBÆNA annulis trunci circiter 223; caudæ 16.

Generis Amphisbænæ perpaucæ quæ noscuntur species a plerisque serpentibus tantum differunt, ut eas primo visu vermes potius quam angues putemus: squamis enim penitus carent, quarum in loco corpus cingunt annuli seu spatia circularia æque distantia, quæ striis innumeris in longitudinem ductis decuffantur. Caput in areas paucas dividitur, squamis majoribus in pleroque colubrino genere non abfimiles; caudaque non fensim attenuata, fed vix a proportione cæteri corporis recedens, apiceque valde obtufo feu rotundato. Orta est ab hac forma vulgaris opinio, Amphisbænæ duo effe capita, unum scilicet in utraque extremitate: cum enim oculi adeo minuti fint ut primo vifu non diftinguantur, eo fit ut inter caput et oppositum extremum ambiguum sit discrimen. Hujus generis species maxima est Amphisbæna alba; ob colorem pallidulum, gilvum

vum scilicet, seu sere album, sic nominata, Colore tamen est interdum pulcherrime roseo, qualis in tabula depingitur. Non raro pedali est longitudine. Americam incolir et plane innocuus est serpens.





#### THE

### ROSE-COLOURED AMPHISBÆNA.

**○**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### GENERIC CHARACTER.

The whole animal marked by annuli or circular fegments.

#### SPECIFIC CHARACTER.

AMPHISBÆNA with the annuli of the body amounting to about 223; of the tail 16.

The animals of the genus Amphifbæna, which contains but very few species, differ so much from the major part of the ferpent tribe, as to be almost liable, on a curfory view, to be mistaken for worms rather than fnakes; being totally destitute of scales; instead of which the whole animal is marked with equidiffant annuli, or circular spaces surrounding the body, and decuffated by an infinite number of longitudinal divisions or striæ. The head is marked with a few large divisions or spaces analogous to the large scales in the major part of the genus Coluber; and the tail, instead of tapering gradually, is fcarce diffinguishable from the proportion of the rest of the body; and is extremely obtuse or rounded. This peculiarity of shape in the genus Amphisbæna, gave rise to the erroneous idea of the Amphisbæna being furnished with a head at each extremity:

mity: for as the eyes are very small, and at first view inconspicuous, the head bears no striking mark of distinction from the opposite extremity. The largest species of this genus, is the Amphisbæna alba; so called from its colour; which is a very pale cream-colour, or nearly white: it sometimes however occurs of a beautiful rose-colour, in which state it is represented on the annexed plate. The Amphisbæna alba is frequently seen of at least a foot in length. It is a native of America, and is perfectly harmless.

## XIPHIAS PLATYPTERUS.

\*

## CHARACTER GENERICUS.

Caput maxilla superiore terminatum rostro ensiformi.

Corpus alepidotum.

## CHARACTER SPECIFICUS, &c.

XIPHIAS pinna dorfi latissima, appendicibus pectoralibus acuminatis longissimis.

GUEBUCU.

Marcgr. bras. 1. 4. c. 15. p. 171.

Monstrum fortasse nullum hoc insignius generat oceanus vel Indicus vel Pacificus. Si rostrum spectemus peracutum et velut ensiforme, Xiphiæ communi physicis optime cognito assine putemus: cum tamen ab illo variis notis discrepet, speciem omnino diversam habeamus necesse est. Longitudo illi est viginti pedum; interdum multo major. Piscem hunc primus descripsit Marcgravius in historia sua Brasiliensi, qui etiam siguram addidit, certe non elegantem, quæ tamen ipsum animal satis accurate exprimit. Color generalis est sub-cæruleo-argenteus, dorso superiori, capite, caudaque exceptis, quæ insigniter susca funt. Pinna dorsi magna susco-pallescit, maculis rotundatis plurimis nigerrimis

gerrimis notata. Specimen iplishimum, quo forsan nullum pulchrius et perfectius, unde figura hæc nostra delineata est, in Museo Britannico asservatur, cui dono dedit illustris ille physicus Josephus Banks, Baronettus: ad quem tribus circiter abhinc annis, venerunt literæ a Præfecto navis Indicæ, robur fere incredibile piscis describentes, afferentesque illum densam et solidam navis carinam roftro penitus transfixisse. Mortem ipfi Xiphiæ conscivit ictus violentia. Fauste admodum evenit non potuisse piscem rostrum reducere; quod si fecisset, perdita esset navis immissa aqua. Rostrum ipfum ligno infixum in Museo Britannico conspici potest. Non folum maria Indica et Auftralia, fed etiam Septentrionalia incolit Xiphias Platypterus. Fertur eum balænis effe inimicissimum, cumque iis sæpius acerrime pugnare. Notatu dignum est loqui Plinium de navibus Xiphia perfossis; quod tamen inter fabulas veterum physicorum semper habitum est. Cum vero ita se rem revera habere intra pancos annos variis exemplis certiftime compertum fit, probabile est Plinium, inscium licet, de hac ipsa specie locutum esse, quæ tunc temporis a Xiphia communi minus accurate diftincta est.

The Waterrord Chronicle

SATURDAY, NOV 11, 1993

THIS DAY'S TELEGRAMS

London, Pathalad Decretioning by J. B. Noblew & J. B. Brown level.

## BROAD-FINNED SWORD-FISH.

<u></u>

### GENERIC CHARACTER.

Head furnished with a sword-shaped snout or upper jaw.

Body without apparent scales.

### SPECIFIC CHARACTER.

SWORD-FISH with extremely broad back-fin, and very long fharp-pointed thoracic appendages.

Amongst the monsters of the deep which inhabit the Indian and Pacific oceans, the fish here represented is one of the most remarkable. From the appearance of the long and sharp-pointed process of the head, it appears, on a cursory view, very nearly allied to the Sword-fish, already so well known to naturalists. It differs, however, in several particulars, from the common or European Sword-fish, and can by no means be regarded as the same species. This extraordinary fish is found of the length of twenty feet, or sometimes much longer. It was first described by Marcgrave, in his History of Brasil, who has illustrated his description by a figure, which, though not possessing any degree of elegance, is yet sufficient

H2

to ascertain the animal. The general colour of this fish is a filvery blueish white, except on the upper part of the back, the head, and the tail, which are of a deep brown. The back-fin is of a pale brown, finely spotted with roundish marks of deep black. The skin is smooth, and without any appearance of scales. The specimen from which the present figure was taken, is an uncommonly fine one: perhaps the most complete and perfect ever feen in Europe. It is now in the British Museum. to which collection it was presented by Sir Joseph BANKS, Bart. Prefident of the Royal Society. About three years ago a letter was fent to the Prefident, from the captain of an East-Indiaman, accompanied by an account of an aftonishing instance of the powerful ftrength which this fish occasionally exerts: the bottom of the faid ship having been pierced through by a fish of this species, in such a manner that the sword or fnout was completely imbedded or driven through, its whole length, and the fish killed by the violence of the effort. A most fingularly fortunate circumstance for the preservation of the vessel! which, had the fish been enabled to have withdrawn its fnout, must inevitably have foundered in confequence of the leak. The wood, together with the fword imbedded in it, is now in the British Museum. This fish is found not only in the Brasilian and East-Indian seas, but also in the Northern ocean. It is faid to be a great enemy to whales, with which it is reported to have frequent combats! It is remarkable that Pliny mentions the circumstance of the Sword-fish being able to transfix vessels; which has generally been regarded as one of those exaggerations

fo frequent in the works of the ancient naturalists; but as the present sish is well known to posses this power, (several other equally-well authenticated accounts having been received within these sew years,) it is surely no improbable supposition, that Pliny, though not conscious of the difference, in reality spoke of this very species, which at that time was doubtless consounded with the common Sword-sish.



## LACERTA UNISTRIATA.

\*

CHARACTER GENERICUS.

Corpus tetrapodum, caudatum, nudum.

CHARACTER SPECIFICUS, &c.

LACERTA FUSCA, fubtus pallidior, linea dorfuali albida, fuper caput furcata, digitis unguiculatis, fubtus, lamellatis.

LACERTA VITTATA?

Gmel. Syst. Nat. 1. p. 1067.

Rarissima est hæc lacerta, nec certum est annon adhuc unquam descripta sit. Inter species Linnæanas frustra requiritur, nec non in numeroso horum animalium agmine quæ suppeditat Thesaurus Sebæ. Quantum colligere possum a speciminibus quæ egomet inspexi, longa est, ut plurimum, sex uncias, interdum ad novem pertingens. Color est languide susco-flavescens, ochræ similis, subtus pallidior. Cauda gilva notis longitudinalibus suscis variatur. Per dorsi longitudinem late discurrit linea insignis albo-gilva, quæ ab utroque latere capitis surcæ instar, divaricat; extremitatibus oculis tenus protensis. Cutis tuberculis, præfertim versus caudam, levitur exasperatur, quæ minutissima cum sint, non nisi attento oculo conspici queant. Simillima

est illi hæc species quam Linnæus nomine Gecko distinxit. In figura nostra exhibetur animal magnitudine ipsius speciminis; sed in figura 1. augetur paululum pars inferior pedis, ut transversæ lamellæ clarius distinctiusque inspiciantur.





## SINGLE-STRIPED LIZARD.

<del></del>

GENERIC CHARACTER.

Body four-footed, tailed, naked.

SPECIFIC CHARACTER.

BROWN LIZARD, paler beneath, with a white dorsal line forked over the head, and unguiculated feet, lamellated beneath.

This species of Lacerta is extremely rare, and it may be doubted whether it has yet been described. It certainly is not a Linnæan species, nor does it occur in the numerous collection of Seba. The fize of the specimens which I have examined is rather fmall, viz. from about fix to nine inches in length. The colour is a foft yellowish brown, paler beneath: the tail is creamcoloured, varied with longitudinal marks of brown, and on the back of the animal is a very remarkable white, or rather cream-coloured broad line, which divides on each fide the top of the head in the manner of a fork, the extremities of each division just reaching to the eyes. The skin of this Lizard, when closely examined, is flightly exasperated, especially towards the tail, with minute tubercles, but they are so extremely fmall that they are not perceptible without a close examination. The feet are transversely lamellated beneath.

The species to which this animal seems to bear the greatest affinity is the Lacerta Gecko of Linnæus. The sigure here given represents it of its natural size; and at sig. 1. is represented the under part of one of the seet, rather larger than nature, in order to shew with greater distinctness the transverse lamellæ with which it is furnished.

## PSITTACUS CONCINNUS,

#### CHARACTER GENERICUS.

Rostrum aduncum: mandibula superiore mobili, cera instructa.

Nares in rostri basi.

Lingua carnofa, obtufa, integra.

Pedes scansorii.

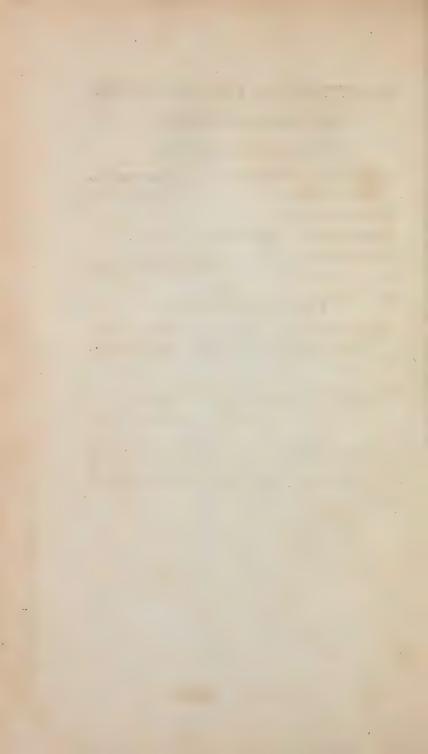
Lin. Syst. Nat. p. 139.

### CHARACTER SPECIFICUS.

PSITTACUS fubmacrourus viridis, fronte maculaque poftoculari coccineis, vertice cærulefcente.

Valde affinis P. pacifico. Lath. Syn. 1. p. 252.

Novæ Hollandiæ est incola perpulchra hæc Psittaci species, et inter alias plurimas aves physicis Europæis nuperrime innotuit. Magnitudo est quasi parvi Turturis.







### CRIMSON-FRONTED PARRAKEET

○ 参告作者专作者专作者专作者专作者专作者专作者

### GENERIC CHARACTER.

Bill hooked. Upper mandible moveable.

Noftrils round, placed in the base of the bill.

Tongue slesshy, broad, blunt at the end.

Legs short. Toes formed for climbing, viz. two backward and two forward.

Linnæus and Pennant.

### SPECIFIC CHARACTER.

GREEN PARRAKEET with lengthened tail, front and fpot behind the eye crimfon, and blueish crown.

N.B. This species is extremely nearly allied to the Pacific Parrot of Latham. vol. 1. p. 252.

The beautiful Parrakeet figured on this plate is a native of New Holland, and is one of the numerous new species of birds very lately made known to the naturalists of Europe. Its size is that of a small turtle.



# PLATALEA AJAJA.

### CHARACTER GENERICUS.

Rostrum planiusculum: apice dilatato, orbiculato, plano.

Pedes tetradactyli, semipalmati.

Lin. Syst. Nat. p. 231.

CHARACTER SPECIFICUS, &c.

PLATALEA corpore fanguineo.

Lin. Syft. Nat. p. 231.

PLATALEA rosea.

Briff. Av. 5. p. 356. t. 30.

PLATALEA brasiliensis AJAJA dicta.

Marcgr. bras. 204.

Plataleæ leucorodiæ Linnæi, feu communi, corporis forma fimillima est eximia hæc avis; coloribus autem longe discrepat: universa enim, exceptis rostro pedibusque, pulcherrime rosea est, alarum parte superiori dorsoque phæniceis. Fertur autem ætate grandior pleneque et persecte plumata, tota esse penitus læte phænicea, vel etiam coccinea; collumque inferius torque seu cingulo nigro ornari. Rostrum susceptible. Crura fere nigricant. Vivit eodem modo quo Platalea communis,

munis, seu leucorodia, littora nempe locaque aquosa quærens, animaliaque minora, ranas scilicet, vermes, et alia ejusmodi depascens. Americam incolit Australem.





#### THE

## ROSE-COLOURED SPOON-BILL.

GENERIC CHARACTER.

Bill flattish, with dilated, orbicular, flat tip. Feet 4-toed, semi-palmated.

SPECIFIC CHARACTER, &c.

SPOONBILL with crimfon plumage.

SPATULE couleur de rose.

Buff. pl. enl. n. 165.

ROSEATE SPOONBILL.

Lath. Syn. 3. p. 16.

This elegant bird, which is a native of South America, in its general shape bears a near resemblance to the Platalea leucorodia of Linnæus, or common Spoonbill, but differs widely in color; the whole bird, except the beak and legs, being generally of a fine full rose-colour, which on the upper part of the wings and the back, deepens almost into crimson. It is said however, that the bird, when advanced in age, and in full perfection of plumage, is entirely of a vivid crimson, or even scarlet, with the addition of a black circle or collar round the lower part of the neck. The bill is of a

pale brown: the legs blackish. In its manner of life it refembles the European or common Spoonbill; frequenting the shores and watery places, and feeding on the smaller aquatic animals, as frogs, worms, &c.

## MONOCULUS POLYPHEMUS.

CHARACTER GENERICUS.

Pedes natatorii.
Corpus crusta tectum.
Oculi (plerisque) approximati, testæ innati.

CHARACTER SPECIFICUS, &c.

MONOCULUS testa antica convexa lunata, cauda triquetro-subulata.

MONOCULUS testa convexa sutura lunata: postica dentata, cauda subulata longissima. Lin. Syst. Nat. p. 1057.

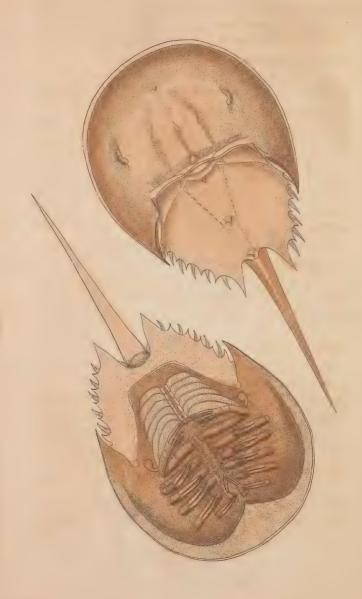
Cluf. exot. 1. 6. c. 14. p. 128. Bont. jav. 1. 5. c. 31.

Monoculum dicitur hoc genus, quod oculi, ut plurimum, fibi invicem adeo appropinquant, ut primo intuitu unicus effe oculus videantur. Aliquarum tamen fpecierum oculi, et præfertim ejus de qua jam agitur, funt alter ab altero valde remoti. Animal quod repræfentat tabula, omnium proculdubio eft maximum, quotquot inter infecta numerare hodiernis vifum eft phyficis: eft enim illi corpus, extra caudam, interdum bipedale in longitudinem. Linnæus dicit " infectorum omnium facile

facile maximum." Oceanum Indicum incolit, et, (ut fertur) bina plerumque fimul conspiciuntur, scilicet mas et fæmina prope natantes. Pleræque hujus generis species parvula funt insecta in aquis dulcibus viventia, quorum multa adeo funt minuta, ut inter animalcula microscopica numerentur. Qui intimas et minus cognitas Naturæ partes scrutari solent, et innumera animalculorum agmina quibus aquæ fcatent, attentius examinare, ii fane fumma cum voluptate conspiciant necesse est varias hujus generis species, quæ fine ope microscopii vix videndæ, characteribus tamen genericis plane demonstrant certiffimum effe illis cum ingenti et gigantea specie de qua jam loquimur, cognationis vinculum. Hæc animalcula mensibus æstivis in omnibus fere aquis stagnantibus facillime reperiuntur; eorum etiam nonnulla a scriptoribus microscopicis, Bakero præcipue, non fane eleganter, satis tamen accurate delineantur, et exempla funt miræ quoad magnitudinem differentiæ quam in ejusdem generis animalibus non possumus non observare.

Huic descriptioni Monoculi Polyphemi non abs re sit addere, quod tunica oculi externa, quæ in aliis infectis e convexitatibus innumeris basi hexagona inclusis constat, in hoc, attestante Domino André (Phil. Trans. t. 72.) e corpusculis plurimis conicis sit constata. Possit etiam observari quod oculi multarum parvularum Monoculi specierum, ab oculis aliorum insectorum structura et aspectu differunt, et velut e pluribus ocellis seu globulis tunica communi contentis, componi videntur. Notandum præterea est genus Monoculi generi Cancri (quod astacos omnes et cancros includit) valde esse assine.





London . Buttished Youty 19 179 ty F. A. Nodder & P. N. 15 . Brower Street.

## INDIAN MONOCULUS.

O\*\*\*\*\*\*

#### GENERIC CHARACTER.

Feet formed for fwimming.

Body covered by a crustaceous shell.

Eyes (in most species) approximated, fixed in the shell.

## SPECIFIC CHARACTER, &c.

MONOCULUS with the anterior part of the shell lunated, and long, triangular, sharp-pointed tail.

The INDIAN MONOCULUS, MOLUCCA CRAB, or KING-CRAB.

The name Monoculus was bestowed on this genus of insects from the circumstance of the eyes being generally seated so near each other, as, upon a cursory view, to appear as if single. In some species however, (as in the present,) it happens that they are really very remote from each other. Of all the animals which modern naturalists have agreed to distinguish by the appellation of Insects, the creature sigured on this plate is by far the largest yet known; specimens being sometimes seen of two feet in length, exclusive of the tail. Linnæus calls

calls it " infectorum omnium facile maximum." It is a native of the Indian ocean, and is faid to be generally found in pairs, or male and female fwimming together. Most of the species of Monoculus are small fresh-water infects, and some of them even belong to the tribe of microscopic animalcules. To those who are accustomed to penetrate into the less conspicuous provinces of Nature, and to investigate the legions of animated beings with which the waters in particular are peopled, it must afford a pleasing entertainment to view feveral species of this genus, which though scarce perceptible without the affiftance of the microscope, yet with respect to their generic characters, bear the most ftriking refemblance to the gigantic species just described. These minute Monoculi are very common animalcules, and may be found in the fummer months in almost all stagnant waters. Some of them are figured, (though not very elegantly, yet with fufficient exactness,) in Baker's works on the microscope, and may ferve as curious examples of the wonderful disparity of fize which fometimes takes place in animals of the fame genus.

To what has been faid of the Monoculus Polyphemus, I should not omit to add, that the eyes in this animal, according to the observations of Mr. André, (Phil. Trans. vol. 72.) consist of a great number of very small cones, in which respect they differ from those of most other insects, in which the outward coat of the eye is composed of innumerable slight convexities, each bounded by an hexagonal outline. It may be proper to add, that the eyes of most of the smaller species of Monoculi

Monoculi differ in their fructure and appearance from those of the generality of insects, and seem composed of a number of smaller eyes or globular parts united by the same external tunic. It may also be observed that the genus Monoculus is very nearly allied to that of Cancer, which contains the Crab and Lobster tribe.



## PAPILIO ULYSSES.

O\*\*\*\*\*\*\*

#### CHARACTER GENERICUS.

Antennæ apicem versus crassiores, sæpius clavato capitatæ.

Alæ (fedentis) erectæ furfumque conniventes, (volatu diurno.)

#### CHARACTER SPECIFICUS.

PAPILIO alis caudatis nigris, disco cæruleo radiante; posticis subtus ocellis septem.

> Lin. Syst. Nat. p. 748. Eq. Achiv.

Fabr. spec. inf. 2. p. 13. Clerk. ic. t. 23.

Cram. pap. 11. t. 121.

Infolitæ pulchritudinis est Ulysses. Alæ sunt nigerrimæ et quasi holosericæ; area autem seu pars media plaga magna amænissime cærulea impletur, cum ad oras pertigerit radiata. Exemplo est hoc insectum papilionum caudatorum, in quibus scilicet alæ posticæ in processus seu quasi caudas excurrunt. Asiæ est incola Ulysses. In quibusdam speciminibus color alarum suscesses, prope apices ruso tincta; alarumque posticarum oræ serie macularum ocellatarum cæruleo-rusescentium, albo nigroque simbriatarum, decorantur.







# ULYSSEŚ,

OR

## THE RADIATED BUTTERFLY.

<del></del>

#### GENERIC CHARACTER.

Antennæ or Horns thickening towards their extremity, and generally terminating in a knob, or club-shaped tip.

Wings (when fitting) erect, and meeting upwards. (Flight diurnal.)

#### SPECIFIC CHARACTER.

BUTTERFLY with tailed black wings, the middle-part blue and radiated, with 7 ocellated fpots on the under furface of the lower wings.

This is an infect of uncommon beauty. The wings are of the deepest velvet black, while the area or middle part of each is possessed by a very large bed of the most exalted blue that can possibly be conceived, and which terminates in a radiated manner round the edges. This infect also affords an example of the caudated papilios, in which the lower wings are furnished with a pair of appendages resembling tails. It is an Asiatic infect. The ground-colour in some specimens is rather brown than black. The under surface is black, tinged with

with rufous near the tips, and the edges of the lower pair are ornamented by a feries of large ocellated fpots, of a reddifh colour tinged with blue, and edged with black and white:

## PSITTACUS EXIMIUS.

#### CHARACTER GENERICUS.

Roftrum aduncum: mandibula fuperiore mobili, cera inftructa.

Nares in rostri basi.

Lingua carnosa, obtusa, integra.

Pedes scansorii.

Lin. Syst. Nat. p. 139.

#### CHARACTER SPECIFICUS.

PSITTACUS macrourus varius, capite gula pectore criffoque coccineis, dorfo nigro flavoviridi undulato, alis caudaque cæruleis.

Rostrum pallidum. Pedes nigricantes. Restrices duæ intermediæ virides.

A Nova Hollandia nuperrime illata est hæc avis, et jam primo depingitur. De splendido ejus crnatu speciatim disserere supervacaneum foret, cum figura varios colores exquisite ostendit. Magnitudine et forma generali psittaco superbo seu Pennantii simillima est.







#### THE

# NONPARÉIL PARROT.

<u></u>

#### GENERIC CHARACTER.

Bill hooked. Upper mandible moveable.

Noftrils roundish, placed in the base of the bill.

Tongue sleshy, broad, blunt at the end.

Legs short. Toes formed for climbing, viz. two forward and two backward.

#### SPECIFIC CHARACTER.

# LONG-TAILED VARIEGATED PARROT, with head throat breast and vent crimson, back black undulated with yellow-green, blue wings and tail.

The two middle tail-feathers are green

This bird is a species hitherto undescribed; having been very lately brought from New Holland. To particularize the richness of its robe would be unnecessary; the figure accurately shewing all its variegations of colour. In fize and general form it is strongly allied to the Pennantian Parrot.



## COLUBER NASICORNIS.

CHARACTER GENERICUS.

Scuta abdominalia.

Squamæ fubcaudales.

Lin. Syst. Nat. p. 275.

#### CHARACTER SPECIFICUS.

coluber fubolivaceo-ferrugineus, nigro irroratus, maculis dorfalibus pallidis nigro circumferiptis, fascia laterali undulata pallida.

Abdomen pallide ochraceum fuliginoso-maculatum. Scuta abdom: 127. Squam: subcaud: circiter 32.

Inter species hucusque ignotas numerandus est Coluber nasicornis. E numero est dirorum istorum serpentum quorum morsus in calidioribus mundi partibus, mortem inferre solet celerem et luctuosam. Si totum fere genus serpentinum horrescunt plurimi homines in hujusmodi investigationibus minus versati, quanto majori metu putemus illos percuti, qui in vivum hunc colubrum inopinato inciderint; quem totum horriscum desormat vultus præter modum torvus et atrox. Cornua enim gerit duo magna et acuminata, (non, qualia Cerastis,) supra oculos; sed super nasum seu fummum maxillæ

maxillæ superioris sita. Erecta propemodum sunt, paulum tamen retro flectuntur, extrinfecusque ab utroque latere. Non omnino cornea funt, fed quodammodo flexibilia, forma fere triangulari five triquetra. Longa funt circiter dimidium unciæ, et a basi utraque exstat fauama dura eiusdem fere formæ cum ipsis cornubus: quo fit, ut duo quasi minora cornua exurgere videantur. Os illi, ut aliis venenatis serpentibus, telis tubulatis duobus utrinque munitur, quæ, cum maxima fint, vulnus sævissimum possunt insligere. Horum minora sunt postica. Longus est Coluber nasicornis uncias circiter triginta quinque. Coloris est fusco-flavescentis, maculis paryulis nigricantibus creberrime irrorati. Per totam dorfi longitudinem, magnis intervallis, decurrit feries macularum fusco-flavescentium, majoribus nigris immerfarum; protenditurque per utraque latera a capite ad caudam fascia angusta, ochracea, acute slexuosa, cujus pars inferior seu ventri proxima, nigrior multo est quam reliquum corpus. Venter obscure ochraceus est, seu cinereo-flavus, labeculis variis nigricantibus notatus; sparguntur insuper per totum corpus huc, illuc, maculæ plurimæ diverfæ magnitudinis. Cauda tenuis brevisque pro corpore. Squamæ asperæ duræque et infigniter carinatæ. Caput squamis parvis tegitur, parsque superior maculam habet permagnam suscam, utrinque in processus acuminatos excurrentem. Latera capitis plumbeo, seu cinereo colore cinguntur. Caput ipsum latum et depressum, genæque fusco et flavicante variæ.

Captum fuisse putem hunc serpentem cum jam exuvias depositurus esset; squamæ quippe exteriores a subjafubjacentibus facile feparantur, quæ, hoc facto, lucidiores videntur; immo circa ventrem fere albefcunt, maculis nigrioribus notatæ. Colubrum naficornem accepit Dominus Edvardus Jenkins in oppido vulgo dicto Charles-Town in Carolina Australi degens, a navarcha e Guinea profecto, illoque nuperrime Museum Britannicum ditavit. Notum esse cum creditur in interiori Africa.







#### THE

## HORN-NOSED SNAKE.

O+++++++++++++++++++++++++

#### GENERIC CHARACTER.

Transverse Lamellæ under the abdomen. Broad alternate Scales under the tail.

#### SPECIFIC CHARACTER.

OLIVE-BROWN SNAKE, freckled with blackifh, with a row of pale dorfal fpots furrounded by black, and a flexuous pale fascia on the sides.

The abdominal plates are 127. The subcaudal scales about 32.

The belly is of a pale olive-colour with dufky spots.

The fnake here represented must be considered as a species hitherto unknown, and adds to the number of those malignant reptiles whose bite, in the hotter regions of the globe, proves the dreadful forerunner of a speedy and painful death. If at first glance of most of the serpent-tribe an involuntary fort of horror and alarm is so often felt by those who are unused to the examination of these animals, how much greater dread must the unexpected view of the species here exhibited be supposed to instict? when to the general form of the crea-

ture is superadded the peculiar fierceness and forbidding torvity with which nature has marked its countenance: diffinguished by the very uncommon appearance of two large and sharp-pointed horns, situated. (not as in the Ceraftes, above the eyes,) but on the top of the nofe, or anterior part of the upper jaw. They ftand nearly upright, but incline flightly backwards and and a little outwards on each fide, and are of a fubstance not absolutely horny, but in some degree flexible. Their shape is somewhat triangular or threefided. They are about half an inch in length, and at the fore-part of the base of each stands an upright ftrong scale, of nearly the same shape with the horn itfelf, and thus giving the appearance of a much smaller pair of horns. The mouth is furnished with extremely large and long fangs or tubular teeth, fituated as in other poisonous serpents, and capable of inflicting the most severe wounds: two of these sangs appear on each fide of the mouth, of which the hinder pair are fmaller than the others. The length of this animal is about thirty-five inches. Its colour is a yellowish olivebrown, very thickly sprinkled all over with minute blackish specks. Along the whole length of the back is placed, at confiderable distances, a series of yellowishbrown fpots or marks, each of which is imbedded in a patch of black; and on each fide the body, from head to tail, runs an acutely flexuous or zig-zag line or narrow band, of an ochre-colour. This band is bounded beneath by a much deeper or blacker shade than on the rest of the body. The belly is of a dull ochrecolour or cinereous yellow, freckled with spots and markings

markings of blackish. Besides these there is a number of black spots of different fizes here and there dispersed over the whole fnake. The tail is fomewhat thin and fhort in proportion to the body. The scales of this fnake are harsh and stiff, and are very strongly carinated. The head is covered with small scales, and is on its upper part marked by a very large longitudinal patch of brown, running out into pointed processes at the fides, and bounded by a space of dull lead-colour or cinereous. The shape of the head is broad and flattened: the cheeks are varied with blackish and yellow. It feems to have been taken at a period not far diftant from that of casting its skin; as the exterior scales separate eafily from the subjacent ones, which then appear of a clearer and lighter colour than before, and the yellowish variegations on the fides and belly approach to a whitish colour, with darkish spots and marks. This fnake is supposed to be a native of the interior parts of Africa, and was obtained from the master of a Guinea veffel by the Rev. EDWARD JENKINS of Charles-Town, South Carolina, by whom it was lately prefented to the British Museum.



## MANTIS STRUMARIA.

#### CHARACTER GENERICUS.

Caput nutans, maxillosum, palpis instructum. Antennæ (plerisque) setaceæ.

Alæ quatuor, membranaceæ, (plerifque) convolutæ; inferiores plicatæ.

Pedes antici compressi, subtus serrato-denticulati, armati ungue solitario et digito setaceo laterali articulato. Postici quatuor, læves, grefforii.

Thorax linearis, elongatus, angustatus.

Lin. Syst. Nat. p. 689.

## CHARACTER SPECIFICUS, &c.

MANTIS thorace utrinque membranaceo-dilatato obcordato.

Lin. Syft. Nat. p. 691.

Roef. inf. 2. gryll. t. 3. Mer. Sur. 27. t. 27.

Cum anteactis temporibus, fabulis et erroribus immerfa jaceret veritas, non defuere qui hujufmodi infecta folia effe quafi animata firmiter credididerint. Notabilis admodum est thorax permagnus et dilatatus. Alæ inferiores feriores pellucidæ funt, levissimo tantum virore tinctæ. Americam Australem incolit singulare hoc animalculum.

Fig. 1, Pupa, seu insectum adhuc impersectum. Fig. 2, Imago, seu insectum declaratum.





SN Sondan Lablished Febry 19 19 9 1. S. Noddor His Arewor Sweet

## BROAD-BREASTED MANTIS.

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*** 

#### GENERIC CHARACTER.

Head unsteady: Mouth armed with jaws, and furnished with palpi.

Antenna fetaceous, (fome few species excepted.)

Wings four, membranaceous, in most species convoluted: the lower ones (generally) plicated.

Feet anterior compressed, servated beneath, armed with a lateral solitary claw and jointed process; posterior sour, smooth, formed for walking.

Thorax (in most species) elongated and narrowed.

### SPECIFIC CHARACTER, &c.

MANTIS with the fides of the thorax nearly membranaceous and greatly dilated.

Mer. Sur. t. 27. Roef. 2. gryll. t. 3.

The Mantis Strumaria is amongst the number of those insects which in less enlightened times have been considered as a kind of animated leaves. The very large, dilated thorax in this insect is highly remarkable. The lower wings are of a transparent appearance, and have but a flight cast of green. This curious animal is a native of South America.

Fig. 1, The infect in its pupa flate.
Fig. 2, The infect in its complete flate.

# PSITTACUS PULCHELLUS.

#### CHARACTER GENERICUS.

Rostrum aduncum: mandibula superiore mobili, cera instructa.

Nares in rostri basi.

Lingua carnosa, obtusa, integra.

Pedes scansorii.

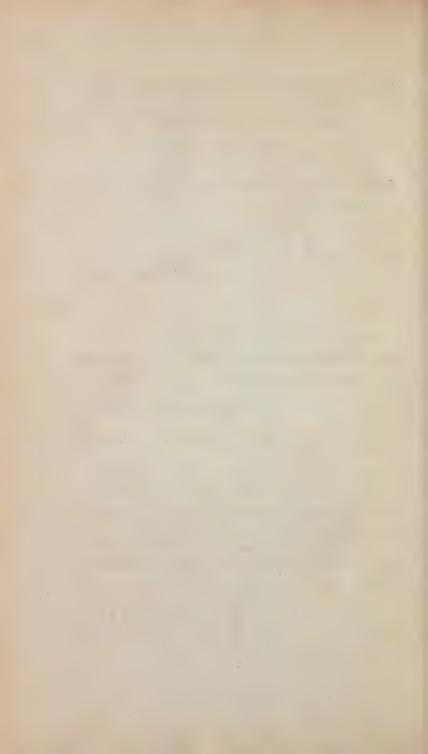
Lin. Syst. Nat. p. 139.

#### CHARACTER SPECIFICUS.

PSITTACUS macrourus viridis, fubtus luteus, capiftro alifque cæruleis.

Rostrum pedesque nigricant.

Inter minimas fui generis numeranda est hæc species, non longe enim superat magnitudine siguram quæ in tabula continetur. Notabile est hanc avem, parvula licet sit, magno illi psittaco qui Ararauna dicitur, primo intuitu admodum similem esse. Species procul dubio nunquam adhuc descripta est, et novam Hollandiam incolit.







# TURCOSINE PARRAKEET.

#### GENERIC CHARACTER.

Bill hooked. Upper mandible moveable.

Nostrils roundish, placed in the base of the bill.

Tongue sleshy, broad, blunt at the end.

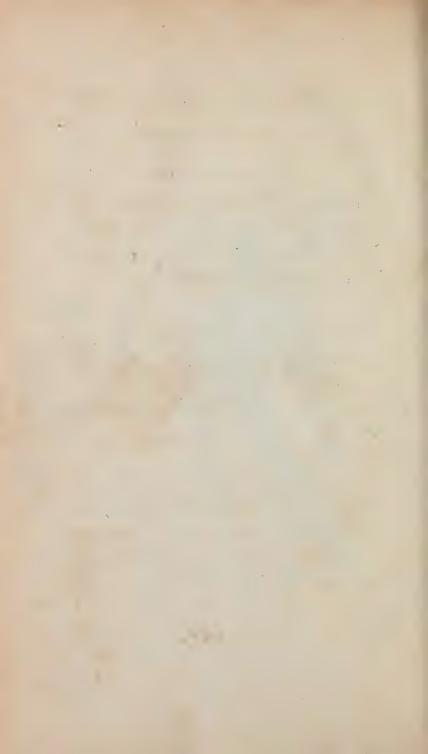
Legs short. Toes formed for climbing, viz. two backward and two forward.

#### SPECIFIC CHARACTER.

LONG-TAILED GREEN PARRAKEET, yellow beneath, with blue wings and frontlet.

The beak and legs are black.

This may be numbered amongst the smallest of its tribe, not very much exceeding in fize the figure here represented. It is remarkable that this diminutive species bears at first view a considerable resemblance to the Pfittacus Ararauna, or great blue and yellow Maccaw. It is an undoubted non-descript, and is a native of New Holland.



# SILURUS CALLICHTHYS.

#### **\***

#### CHARACTER GENERICUS.

Caput nudum. Os cirris aliquot filiformibus tentaculatum.

Membr. branch. radiis 4-14.

Corpus: Radius pinnarum pectoralium aut dorfalis primus fpinofus, retrodentatus.

Lin. Syst. Nat. p. 501.

# CHARACTER SPECIFICUS, &c.

SILURUS pinna dorfali postica uniradiata, squamis ordine duplici, cirris quatuor.

Lin. Syst. Nat. p. 506.

Amæn. acad. 1. p. 317. t. 14. f. 1. Gron. mus. 1. n. 70. Seb. mus. 3. t. 29. f. 13.

Squamarum quibus pisces muniuntur, pulchritudo et diversitas, observationum microscopicarum studiosis amplissimam diu præbuerunt materiem. Nonnullis sunt squamæ ovatæ, annulis concentricis sibrarum reticulatarum ornatæ: aliis sere quadratæ, sibris in divisiones inæquales dispositis, marginibus aculeorum pellucidorum serie distinctis. Quarundam specierum squamæ ob exigui-

exiguitatem primo visu vix discerni possunt; aliarum non modo minimas fed et muco denfo coopertas attentissima oculorum acie investigare necesse est. Sunt e contrario pisces qui squamis teguntur amplissimis; quod infigniter evenit in peculiari illa varietate, (ni potius distinctam speciem putemus) Cyprini, nomine Cyprini Regis distincti; cujus squamæ quadrantem diametri ipsius corporis æquant. Non desunt denique exempla piscium ad diversissima genera pertinentium, quorum squamæ amplissimæ et durissimæ a reliquis in tantum discrepant, ut prima facie ad ipsa animalia crustata videantur accedere. Hos vocat Linnæus catapbractos, quod scilicet quasi lorica muniantur. Ejusmodi principes sunt Silurus cataphractus, Silurus Callichthys, Cottus cataphractus, Trigla cataphracta, Loricaria cataphracta. Silurus Callichthys, quem oftendit tabula, tum Europam tum Americam inhabitat; plerumque autem in America Auftrali, et præcipue in Brafilia invenitur. Rivulos incolit, e. quibus, fi æstate fervidiore fere exsiccati fuerint, mirum dictu! fe furripit, et per prata late evagatur, aquas altiores quæritans. E piscinis quoque in quibus servatus fit interdum erepit, margines seu aggeres perforando. Relictis tamen aquis, fuper terram incedere non folius est Callichthys; idem enim facere folent alii nonnulli, Muræna præcipue Anguilla dicta, quæ per prata noctu prorepit, limaces fortaffe aliaque id generis prædatura; et si hyems fuerit severior, sub ipso etiam foeno et in cavernis latitans interdum deprenfa est. Callichthys longitudo communis est circiter quatuor pollices: color fusco-flavescens, dorso paulum obscuriore. Oculi minuti; et utrinque ad latera oris (ut in aliis ejusdem generis) tentacula duo longa et magna extenduntur.





London; Saltished March verya, by J. J. Sodder & N. 16 Brewer Screet

# WANDERING SILURUS.

<u></u>

#### GENERIC CHARACTER.

Head naked, large, depressed.

Mouth wide, generally furnished with long tentacula or beards.

First ray of the pectoral and dorsal fins commonly strong and ferrated backwards.

# SPECIFIC CHARACTER, &c.

SILURUS with a double range of scales, four beards, and the last dorsal fin single-rayed.

Gron. mus. 3. t. 29. fig. 13. Marcgr. bras. 151.

The beautiful and varied structure which distinguishes the scales of fishes, has long afforded an extensive field for microscopical observation. In some the scales are of an oval shape, with concentric rings of reticulated fibres; in others of a squarish form, with the fibres curiously disposed into diffimilar patches or subdivisions, and ornamented at the extremities with a series of transparent aculei or prickles. In some sishes the scales are so extremely small as to be scarce distinguishable on a cursory view, and in some they are not only very small,

but

but so coated over by a mucous tegument as to require the most attentive investigation in order to discover them. In others, on the contrary, they are as remarkable for their extreme largeness, as in the peculiar variety (if not diffinct species) of Cyprinus or Carp. known by the title of the King-Carp, in which the scales are equal to a fourth part of the diameter of the fish. Lastly, there are not wanting some instances of fish belonging to very different genera, which are coated with scales of a fize so very large, of a structure so uncommonly strong, and of a disposition fo unlike that which appears in the scales of other fish, that they seem at first glance to belong to the crustaceous tribe. Fishes of this peculiar cast are termed by Linnæus cataphracted or mailed fish, as if in suits of armour. Of these the most remarkable are the Silurus cataphractus, Silurus Callichthys, Cottus cataphractus, Trigla cataphracta, and Loricaria cataphracta. The Silurus Callichthys, here represented, is a native both of Europe and America, but is more common in South America than in Europe, being principally found in Brafil. It inhabits rivulets, and when these during a dry season grow extremely shallow, it has the extraordinary faculty of creeping out and traverfing over the dry ground in order to feek deeper water. It has also been known to make its escape from fishponds in which it has been confined, by piercing through the banks. This terreftrial locomotion of fishes is not however confined to the Callichthys, but is known to take place in some others, and particularly in the common eel, which frequently creeps about meadows by night, in quest perhaps of flugs, &c., and has been known during the frofts of a fevere winter to take refuge under hay-ricks

and in caverns. The general length of the Callichthys, is about four inches: its color is a yellowish brown, fomewhat deeper on the back than on the other parts. The eyes are small, and on each side the mouth are situated (as in several others of this genus) two very large and long cirrhi or beards.



# TUBIPORA MUSICA.

○÷÷÷÷÷÷÷÷÷÷÷÷÷÷÷÷÷÷÷÷÷÷

CHARACTER GENERICUS.

Animal Nereis?

Corallium tubis cylindricis, cavis, erectis, parallelis.

Lin. Syst. Nat. p. 1270.

CHARACTER SPECIFICUS, &c.

TUBIPORA tubis fasciculatis combinatis: dissepimentis transversis membranaceis distantibus. Lin. Syst. Nat. p. 1270.

PSEUDO-CORALLIUM RUBRUM.

Aldr. mus. 291.

ALCYONIUM FISTULOSUM RUBRUM.

Bauh. hift. 3. p. 808. fig. 2.

TUBULARIA PURPUREA.

Tourn. inft. t. 342.

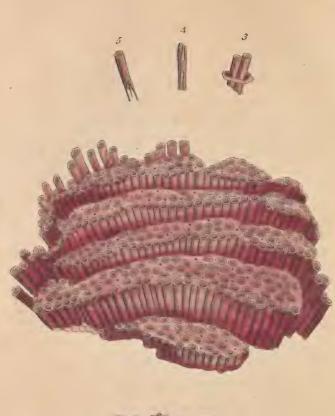
Iis lithophytis annumerandum est hoc corallium quorum si formam generalem spectes, vix possit dubitari quin ab animalibus essicta sint. Constat quippe tota massa e tubulis erectis et parallelis, alio super alium gradatim assurgente, qualiter sere sit in cellulis apum. Septa transversa quibus tuborum strata connectuntur, ascendunt inæqualiter in variis partibus, tubis ipsis raro unciam,

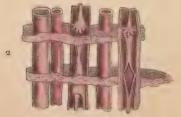
unciam, interdum femiunciam altis, eorundem diametro nunc decimám nunc octavam pollicis partem attingente. Ab hac tamen proportione in diversis speciminibus longe deceditur. Vera animalium incolentium natura vix adhuc pro certo explorata est: ea tamen putat Linnæus Nereidibus vix ac ne vix differre. Speciem hac pulchriorem vix fortasse inveniemus in toto genere corallino: structuræ enim ipsius elegantiam mire auget color fuaviter purpureus feu phoeniceus. Si finguli tubi accuratius inspiciantur, patebit eorum unumquemque tubulum minorem geniculis aliquot feu feptis radiatis divisum continere, cujus ope diversis stratis sæpe cum fe invicem communicatur. In magnam molem fefe extendit formosum hoc corallium, nec defuere specimina quæ pedes duos immo tres diametro superarunt. Cum adhuc fit recens, tota superficies exterior gelata seu mucofa substantia obducitur, quæ etiam per partes tubulatas quodammodo diffundi videtur. Magna Tubiporæ muficæ est copia circa littora insularum Indicarum nec non maris Pacifici.

Fig. 1, Pars aperta, et microscopio aucta, ut structura interior pateat.

Fig. 2, 3, 4, Tubuli separati magnitudine naturali.







SN

London , Dublished March 1t 1992; by F. A. Nodder & fo No. 15 Brown Streets

# CRIMSON TUBIPORE,

OR

# ORGAN CORAL.

○\*

#### GENERIC CHARACTER.

Animal allied (probably) to the genus Nereis.

Coral confifting of erect cylindric parallel tubes.

#### SPECIFIC CHARACTER, &c.

TUBIPORE with fasciculated connected tubes, and distant transverse membranaceous diffepiments.

Argenv. conch. t. 26. fig. A. Ellis Zooph. p. 144. t. 27.

This is one of those Lithophytes which in structure and general appearance seem plainly to indicate the operation of animals, the whole mass consisting of an affortment of upright parallel tubes, rising over each other by stages, somewhat in the manner of the cells of an honeycomb. The stages or transverse dissepiments by which the strata of tubes are connected, are of unequal heights in different parts of the mass, and the tubes of each stratum seldom rise to the height of an inch, and sometimes do not exceed half an inch, and their diameter is from about a tenth to an eighth of

an inch. In different specimens however there is a confiderable variation, both in the proportional length and diameter of the tubes. The real nature of the inhabiting animals of these tubes is not clearly ascertained. but they are supposed by Linnæus to be strongly allied to Nereides. In point of beauty scarce any of the coral tribe can exceed the present species; the colour, which is a rich purple or deep crimson, highly increafing the elegance of the fabric. The individual tubes, when accurately examined, appear each furnished with a finaller internal tube, which is divided at certain diftances by radiated diaphragms or partitions. By means of these internal tubes the different strata often communicate with each other. This curious coral extends itself to a very considerable fize; specimens having been frequently feen of from one to three feet in diameter. In its recent state the whole upper surface is coated over by a mucous or gelatinous fubstance, which feems to pervade the tubular texture of the whole coral. The tubipora mufica is produced in the greatest abundance about the shores of the East-Indian islands and those of the Pacific Ocean.

Fig. 1, A piece laid open and magnified by the microscope, in order to shew the interior structure.

Fig. 2, 3, 4, Separate tubes of their natural fize.

# CASUARIUS AUSTRALIS.

#### CHARACTER GENERICUS.

Rostrum depressum, rectum, subconicum.

Alæ brevissimæ, volatui inutiles.

Femora in parte inferiore denudata.

Pedes tridactyli, digitis omnibus anticis.

Cauda nulla.

Lath. ind. orn. p. 664.

CHARACTER SPECIFICUS, &c.

CASUARIUS FUSCUS, vertice inermi.

STRUTHIO CASUARIUS.

Lin. Syst. Nat. p. 265.

CASUARIUS NOVÆ HOLLANDIÆ.

Lath. ind. orn. p. 665.

Inter aves quas protulit ingens illa infula Nova Hollandia (ni continens potius appelletur) infignis est quæ in tabula depingitur Casuarii species; a communi seu Africana adeo discrepans, ut dubitari non possit illam penitus et revera diversam esse. Magnitudine enim est multo majori, alta interdum, ad minus, pedes septem. Color imus cinereo-fuscus, subtus pallidior. Caret caput galea seu crista illa cornea, quæ speciem communication.

M

nem distinguit. Collum præterea loco rugosæ illius et rubræ cæruleæque cutis, et caruncularum quæ in Africana conspicuæ, pennis parvis vestitur, per quas ipsa cutis in hac parte leviter cærulea vix ac ne vix discerni possit. In apicibus alarum, quæ ad volandum inutiles, unguiculus est incurvatus et acutus. Crura validissima, nigricantia, et in parte postica conspicue serrata. Rostrum ejusdem fere coloris cum cruribus.





#### THE

# SOUTHERN CASSOWARY.

<del></del>

#### GENERIC CHARACTER.

Bill depressed, strait, nearly conical.

Wings extremely small, and unsit for slight.

Feet tridactylous, with all the toes standing forward.

SPECIFIC CHARACTER, &c.

DARK-BROWN CASSOWARY with unarmed head.

NEW-HOLLAND CASSOWARY.

White's Voyage, pl. 1. p. 129.

One of the most remarkable birds which the continent of New Holland has yet afforded is a species of Cassowary which differs from the common or African kind in so many respects as to leave no doubt of its being perfectly distinct. In size it is considerably superior to the common Cassowary, having been seen of the height of at least seven feet. Its general colour is a fort of cinereous brown, somewhat paler beneath. The head is destitute of that horny crest which so strikingly distinguishes the African species; and the neck instead of being surnished with a wrinkled longitudinal redand-blue skin and wattles as in that bird, is covered

with small feathers, through which the skin, which is of a bluish colour in that part, is just visible. The wings are perfectly useless for slight, and at the tip of each is a small, sharp, crooked spur or claw. The legs are very strong, of a blackish colour, and of a serrated appearance on the hinder part. The beak is of nearly the same colour with the legs.

# ARGONAUTA ARGO.

Q\*\*\*\*\*\*\*\*\*\*\*\*\*\*

CHARACTER GENERICUS.

Animal Sepia.

Tefta univalvis, fpiralis, involuta, membranacea, unilocularis.

Lin. Syst. Nat. p. 1161.

CHARACTER SPECIFICUS, &c.

ARGONAUTA carina utrinque fubdentata. *Gmel. Syft. Nat.* p. 3367.

NAUTILUS fulcatus.

Klein. oftr. t. 1. f. 3.

NAUTILUS tenuis.

Rumpf. muf. t. 18. f. 1. 4. A. B.

Utcunque inter animalia ejusdem familiæ eadem fere sit formæ partiumque similitudo, pauca tamen proferri possuma exempla, in quibus a norma sua insigniter aberrare solet natura; præcipue vero in classe testacea. Testarum enim univalvium (ut dicuntur) incolæ, generi Limacis simillimi sunt; bivalvium contra generibus Tethyos et Ascidiæ. Formæ hujus anomalæ nullum notabilius argumentum possit seligi quam in genere Argonautæ; vel Nautili qui papyraceus dicitur: ab omnibus enim aliis ejusdem divisionis adeo discrepat animal

animal hanc testam inhabitans, ut illius verum esse et genuinum incolam non mirum sit si ægre credatur. Linnæus igitur de hac re scribit, "Domunculam alienam, quemadmodum Cancer Diogenes seu Bernhardus, intrasse Sepiam, cum non connexa sit testæ, sibi adeo alienæ, qui non crederet, nisi tot testes nobis obstringerent, qui propriis oculis viderunt Argonautam velisicantem?"

Extra testam visus Argonautæ habitator sepiæ speciem, sepiam præcipue octopodiam admodum resert: nec sane ab ea forma generali dissert, nisi quod ad extremitates brachiorum duorum membranas ovatas habeat, quas cum super mare pacatum navigat, erigit, reliquis sex brachiis remigans. Fieri non potuit ut miranda res hominum oculos essugeret: ideoque a variis auctoribus descriptam legimus; nullis elegantius quam Plinio.

"Inter præcipua autem miracula eft, qui vocatur Nautilos, ab aliis Pompilos. Supinus in fumma æquorum pervenit, ita fe paulatim fubrigens, ut emiffa omni per fiftulam aqua, velut exoneratus fentina, facile naviget. Poftea prima duo brachia retorquens, membranam inter illa miræ tenuitatis extendit; qua velificante in aura, cæteris fubremigans brachiis, media cauda, ut gubernaculo, fe regit. Ita vadit alto, Liburnicarum ludens imagine, et fi quid pavoris interveniat, haufta fe mergens aqua."

Cavendum est hanc testam, quæ verus est Argonauta, cum Nautilo communiter dicto, seu Nautilo concamerato confundamus, qui generis est omnino distincti. Crescit Argonauta Argo ab una uncia ad sex vel etiam octo. Mare Mediterraneum nec non Indicum incolit.



THE

# ARGONAUT,

OR

#### PAPER NAUTILUS.

<u></u>

GENERIC CHARACTER.

Animal extremely refembling a Sepia. Shell univalve, fpiral, extremely thin.

SPECIFIC CHARACTER, &c.

ARGONAUT with whitish furrowed shell, with the keel dentated on each side.

THE PAPER NAUTILUS. NAUTILLE PAPIRACÉ.

Argenv. t. 5.

Notwithstanding the general similarity of structure which prevails amongst animals of the same tribe, there are yet some remarkable deviations from it. This is no where more conspicuous than in the testaceous tribe, in which the inhabitants of most of the Univalves bear a strong affinity to the genus Limax, or Slug, while those of atmost all the Bivalves are distinguished by a striking similarity to the genera of Tethys and Ascidia. Amongst the instances of deviation from the general plan may

be adduced the very remarkable and curious genus Argonauta or Paper-Nautilus, which is inhabited by an animal of an appearance fo widely removed from those of most of the Univalves, as almost to make doubtful the reality of its being the genuine and proper inhabitant of the shell in which it resides. Linnæus accordingly has well observed, that unless the evidence of so many eye-witneffes had enforced belief, it might have been reasonably imagined that an animal so unlike the rest of the tribe, was only a usurper of the shell; in the fame manner as the Cancer Diogenes and a few others, which take possession of such vacant shells as happen to fuit their convenience. The inhabitant of the Argonauta, if feen detached from its shell, might pass for a real Sepia, and bears so great a resemblance to the Sepia octopodia or eight-armed Cuttle-fish, that the principal difference confifts in its being furnished at the extremities of two of it arms with a pair of membranes of an oval form, which, during its occasional navigations on the furface of a calm fea, it raifes upright and expands to the gale; while by the affiftance of the fix remaining arms it rows itfelf along. It feems impossible that so curious a spectacle could have escaped the particular observation of mankind. Accordingly we find it described by various authors: by none however more elegantly than by Pliny, whose short and beautiful description, has generally been quoted by modern writers.

"But amongst the principal miracles of nature is the animal called Nautilos or Pompilos. It ascends to the furface of the sea in a supine posture, and gradually raising itself up, forces out by means of its tube all the

water from the shell, in order that it may swim the more readily; then throwing back the two foremost arms, it displays between them a membrane of wonderful tenuity, which acts as a fail, while with the remaining arms it rows itself along; the tail in the middle acting as a helm to direct its course; and thus pursues its voyage like a little ship; and if alarmed by any appearance of danger, takes in the water and descends."

We must be careful not to confound this shell, which is the real and proper Nautilus, with the chambered or pearly Nautilus, which belongs to a very distinct genus. The Argonauta Argo is found of various sizes, from one to fix or eight inches in length, or even larger. It is a native both of the Mediterranean and Indian seas.



# SCORPIO AFER.

#### <del></del>

#### CHARACTER GENERICUS.

Pedes octo: insuper Chelæ duæ frontales.

Oculi octo: horum tres ad latus utrumque tho-

racis; duo in tergo.

Palpi duo, cheliformes.

Cauda elongata, articulata, terminata Mucrone arcuato.

Pectines duo subtus, inter pectus et abdomen.

Lin. Syst. Nat. p. 1037.

# CHARACTER SPECIFICUS, &c.

SCORPIO pectinibus 13-dentatis, manibus fubcordatis pilofis.

Lin. Syst. Nat. p. 1038.

#### SCORPIO INDUS.

Degeer. inf. 7. p. 341. n. 3.

Inter omnia insecta hactenus cognita, quæ venenosæ et malignæ sunt indolis, Scorpiones primo semper numerari soliti sunt. Notandum tamen est vim veneni vel augeri vel minui pro diversa hominum vulneratorum idiosyncrasia, statuque ipsius animalis, majorive minorive impetu quo plaga insligitur. Concedendum etiam est vulgarem Scorpionem Europæum, multo ma-

gis quam necesse est timeri, cujus ab aculeo vix aliquid mali potest evenire. At vero ingentes Africani Scorpiones, qualis est ille qui in tabula depingitur, vulnus infligere posse jure censetur, quod dolor acerrimus, virusque gravissimum solent comitari. Venenum per tria minutissima foramina prope apicem aculei exit, a summo fere apice et ab utroque latere. Notum est multum diuque dubitaffe phyficos fitne foramen necne, per quod venenum effunditur, in aranearum forcipibus. Similiter de foraminibus in scorpionis aculeo dubitatum est. immo pene ad lites perventum. Celeberrimus Redi, optimis licet vitris microfcopicis tunc temporis inftructus, non potuit foramen discernere; qui tamen revera illud extare minime dubitavit, quippe qui ab aculeo compresso guttulam quasi liquoris albescentis juxta apicem exprimi sæpe viderat. Alii autem multi ullum esse foramen plane negarunt. Vallisneri et Leewenhoek foramina duo triangula clare visa descripserunt ab utroque latere prope apicem fita; alii tria detexerunt; unde patet Scorpionis aculeum venenum promptius efflare posse quam alius cujusvis animalis. Pars illà quæ Scorpionibus sub pectore sita est, quæque more pectinis denticulata est, hoc ipso nomine pettinis a Linnæo defignatur; qui etiam diversas species numero dentium in pectine distinguere conatus est. Fefellit tamen multos hee discriminandi methodus; pectinibus enim ejusdem speciei impar forsan sit numerus dentium; ideoque hoc folo figno species non possunt satis accurate dignosci. Species hic depicta est magnus Scorpio Africanus, a Linnæo Scorpio Afer nominatus. Color ejus communis est admodum fuscus, interdum pene nigricans. magnam crescit molem, interdum multo majorem quam

repræfentat tabula. Vivipari funt Scorpiones, et plurimos uno partu edunt pullos, qui perfecte formati, nullam aliam mutationem fubeunt, nifi forte quod aranearum more exuvias abjiciant. Quæ feripferunt varia et mira de his animalibus antiquiores phyfici, aniles funt fabulæ, quas præfens ævum, cui omnigena affulfit feientia, ægre et indigne audiat. Hæc igitur putida et inania lubens taceo. Unum tamen e plurimis fas mihi fit feligere; Scorpionem nempe carbonibus ignitis circumdatum, cum nullum fibi exitum patere viderit, faluti tandem desperantem, sui ipsius aculei istibus perire. Hanc fabulam, quasi side dignam, plures etiam nunc temporis, serio et graviter recitant, et pro unico suicidii exemplo inter inseriora animalia seligunt.

Fig. 2. Pectines.

# AFRICAN SCORPION.

#### 

### GENERIC CHARACTER.

Eight Legs, besides the 2 frontal Chelæ.

Eight Eyes, viz. 3 on each side the thorax, and 2 on the back.

Two cheliform Palpi or feelers.

Tail long, jointed, terminated by a crooked point. Two Combs beneath, between the thorax and abdomen.

# SPECIFIC CHARACTER, &c.

SCORPION with 13-toothed combs and fomewhat heart-shaped hairy claws.

Swammerd. bibl. nat. t. 3. f. 3. Roef. inf. 3. t. 65.

Scorpions may be confidered as the most malignant and poisonous of all known insects. It is true that the effect of their string will differ greatly according to the different circumstances of the constitution of the person receiving the wound, as well as of the state of the animal itself, and the degree of violence with which the wound was inslicted. It is also to be acknowledged that the common European Scorpion is not in general



of so terrible a nature as is commonly supposed, and it is but rarely that any bad confequences happen from its sting. But the large Scorpions of Africa, such as here represented, may well be supposed capable of inflicting a wound of the most severe pungency and of the most dreadful malignity. The poison is evacuated through three very fmall foramina near the tip of the fting, viz. one on each fide the tip, and the other in the upper part. It is well known that a diversity of opinion has fublisted amongst authors relative to the slit or foramen in the fangs of spiders, through which their poison is evacuated. The fame contrariety of fentiment takes place with respect to such a foramen in the Scorpion's sting. The celebrated Redi, affisted by the best microscopes he could procure, was not able to discover it; though he was well convinced of its existence from perceiving the minute drop of poison exsude from near the tip of the sting. Others have denied the existence of the foramen; but Vallisneri and Leewenhoek have both described two foramina, viz. one on each fide the tip, and which are of a shape inclining to triangular: besides these a third foramen has sometimes been seen; so that the sting of the Scorpion can with greater facility discharge its venom than that of any other animal. The part in Scorpions which is feated below the breaft and is toothed in the manner of a comb, is in the Linnæan language termed the pecten; and Linnæus has endeavoured to distinguish the species of Scorpions from the number of teeth in this part; but this has been found a fallacious mark of distinction; since they vary in the number of teeth, and consequently no great certainty can be obtained from this character alone.

The very large species here represented is the great African Scorpion, or Scorpio Afer of Linnæus. Its general colour is a deep brown, nearly approaching in fome specimens to black. It grows to a very large fize; specimens being sometimes seen which far exceed in fize the figure here represented. Scorpions are viviparous infects, and produce a very confiderable number of young at once; which are completely shaped, and undergo no farther change, except (perhaps) casting their skin from time to time in the manner of spiders. Several fabulous anecdotes of these animals have been recorded by the older writers on natural history. which are totally unworthy of being related in the prefent enlightened age. One of the most remarkable of these legends is, that a Scorpion surrounded by live coals, finding no method to escape, grows desperate from its fituation and flings itself to death. It is not uncommon to hear this quoted with ferious credulity as the only inflance of fuicide amongst inferior animals.

Fig. 2. The pectinated parts or combs.

# CERTHIA CARDINALIS.

### CHARACTER GENERICUS.

Rostrum arcuatum, tenue, subtrigonum, acutum. Lingua acuta.

Pedes ambulatorii.

Lin. Syst. Nat. p. 184.

CHARACTER SPECIFICUS, &c.

CERTHIA RUBERRIMA, alis caudaque nigris, abdomine albido.

CERTHIA CARDINALIS?

Lath. ind. orn. p. 290.

CERTHIA RUBRA?

Gmel. Syst. Nat. 1. p. 479.

Inter minimas numeratur hæc avicula fui generis, fiftitque eam tabula magnitudine naturali. Forma generali Certhiæ cruentatæ Linnæi videtur fimillima. In infulis aliquibus Australibus nasci creditur; quicquid autem ad pec 'iares illius mores attinet incognitum omne et incertum est.

#### THE

# CARDINAL CREEPER.

### GENERIC CHARACTER.

Bill flender, incurvated, fharp-pointed.

Tongue differing in fhape in the different species.

Legs moderately stout.

Toes placed three before, and one behind; back toe large: claws hooked and long.

Linnæus. Latham. Pennant.

# SPECIFIC CHARACTER, &c.

CARMINE-RED CREEPER, with black wings and tail, and whitish belly.

CARDINAL CREEPER.

Lath. Syn. 1 p. 733.

This bird may be numbered amongst the smallest of its genus, the figure representing it of its natural size. In its general appearance it seems extremely nearly allied to the certhia cruentata of Linnæus, or red-spotted creeper. It is supposed to be a native of some of the Southern islands, but its particular history seems to be unknown.



-37.41



# ASTERIAS CAPUT MEDUSÆ.

Q44444444444444444444

#### CHARACTER GENERICUS.

Corpus depressum: crusta subcoriacea, tentaculis muricata.

Os centrale, quinquevalve.

Lin. Syst. Nat. p. 1098.

CHARACTER SPECIFICUS, &c.

ASTERIAS radiis dichotomis, ore depressio.

ASTERIAS CAPUT MEDUSÆ.

Lin. Syft. Nat. p. 1101.

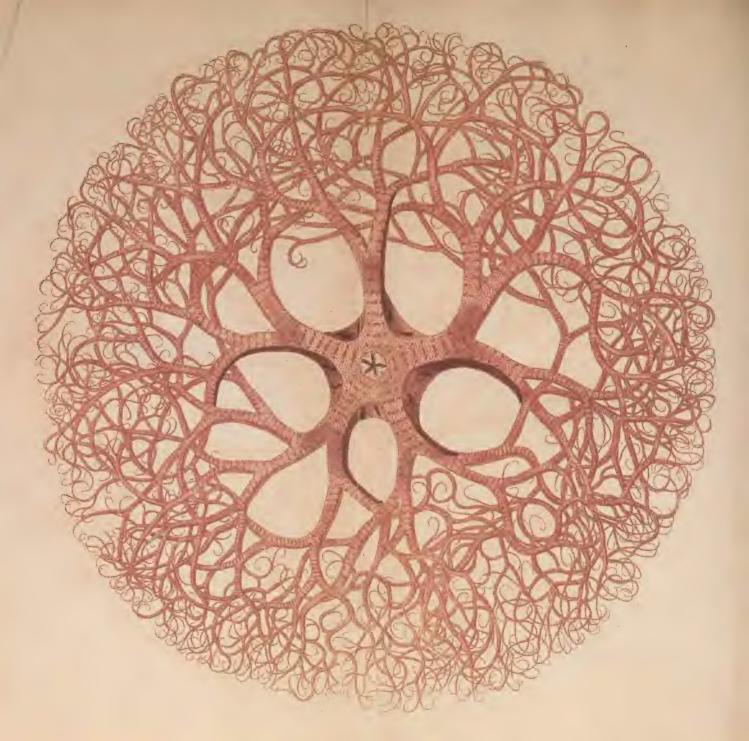
STELLA MARINA.

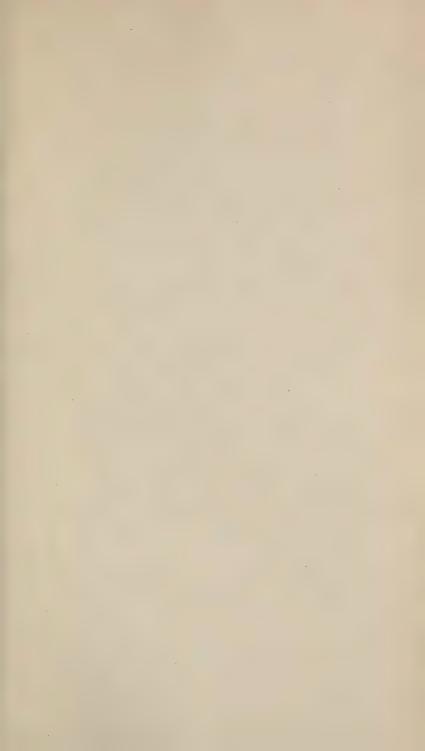
Jonst. ins. t. 26. f. 11.

Afteriæ, feu stellæ æquoreæ, ut vulgo nominantur, mirum et numerosum constituunt genus animalium marinorum. Specierum diversarum diversa admodum est facies externa. Pars maxima formæ sunt stellatæ, seu in quinque radios æquales divisæ: aliæ in plures radios, decem nempe vel tredecim: nonnullæ scabræ et tuberosæ, nonnullæ læves, aliæ denique spinosæ sunt. Species vero reliquis longe mirabilior Asterias caput Medusæ vocatur. Hæc a centro in quinque æquales et æque distantes radios geniculatos primum dividitur, quorum singuli dein in duos alios minores divaricant;

hi iterum paulo longiore intervallo in duos adhuc minores feparantur; et hoc modo, divisionibus minoribus et numerofioribus, infinita pene serie sensim attenuata et multiplicata, distribuuntur membra, donec millia multa numero superent. Inde fit ut animal quasi rete sit vivum, nec immerito rete mirabile possit dici, cum illa quæ pro cibo natura voluit animalia, contractis fubito innumeris ramulis amplectatur, et adempta aufugiendi potestate, misera devoret. Asteriæ facultatem repullulandi habent, membrumque aliquod vel cafu vel vi abruptum aut avulfum progressu temporis renovatur. In oceano, præsertim prope littora cibi captandi gratia vagantur, animaliaque non tantum nuda et molliora fed etiam testis obtecta comedunt; dentibus enim duris et acutis spinas referentibus armantur, adeo sitis ut aculei omnes ad centrum convergant, dispares in diversis speciebus. Species hic depicta in oceano fere omni invenitur, præcipue in mari Mediterraneo. Colore variat: interdum pallida, seu ruso albescens, interdum suscescens, immo etiam penitus fusca reperitur. Asteriæ (fortaffe,) ut plurimum, viviparæ? funt.









#### THE

# BRANCHED ASTERIAS,

## MEDUSEAN STAR-FISH.

*<u></u>* 

#### GENERIC CHARACTER.

Body depressed; covered with a coriaceous crust, muricated with tentacula.

Mouth central, with five valves.

# SPECIFIC CHARACTER, &c.

ASTERIAS, with regularly-divided and fubdivided branches, and depreffed mouth.

MEDUSA-HEAD STAR-FISH.

BASKET/STAR-FISH.

The Afteriæ or fea-stars, as they are generally called, form a very numerous and wonderful genus of marine animals. The several species differ greatly in appearance from each other: the greater number are of a stellated form, and are divided into five rays or process; others are divided into a much greater number of rays, as ten, and thirteen. Some species are smooth, some tuberculated, others prickly. The species which of all others is most worthy of admiration is that called the Caput Medusæ, or Medusa's Head Star-fish: this

very curious animal is first divided into five equidistant, thickly-jointed processes, each of which is soon subdivided into two other smaller ones, and each of these, at a somewhat farther distance, into two others still fmaller: this mode of regular fubdivision is continued to a vast extent, and in the most beautiful gradation of minuteness, till at length the number of the extreme ramifications amounts to feveral thousands. most curious structure the animal becomes as it were a living net, and may well deferve the title of rete mirabile, and is capable of catching such creatures as are by nature deftined for its prey, by the fudden contraction of all its innumerable ramifications, by which the unfortunate object is fecured beyond all possibility of escape. The sea-stars have a very considerable degree of reproductive power, and if injured by accidental violence, or if one or more of their limbs or branches be torn or cut off, the creature will in time be furnished with new ones. They wander about the ocean, particularly near the shores, in quest of food, and prey not only on the fofter animals, but even on the smaller shell-fish; and are armed for this purpose with hard and fharp teeth, refembling prickles, and fituated in a circular form, with the points converging towards the opening of the mouth, and differing in number in the different species. The species here represented is not uncommon in most seas, and is frequently found in the Mediterranean. In colour it varies, being fometimes pale, or reddish white, and sometimes of a brown, more or less intense. The Asteriæ in general are viviparous? animals.

## PTINUS FATIDICUS.

#### CHARACTER GENERICUS.

Antennæ filiformes; articulis ultimis majoribus. Thorax fubrotundus, immarginatus, caput excipiens.

Lin. Syst. Nat. p. 565.

CHARACTER SPECIFICUS, &c.

PTINUS fuscus subpilosus, griseo irregulariter maculosus.

DERMESTES TESSELATUS??

Fabr. Syst. Ent. p. 56. Sp. ins. p. 65.

PTINUS PULSATOR?

Gmel. Syst. Nat. p. 1605.

Ex ineptiis omnibus quæ imbecillos vulgi animos occuparunt, inanior nulla est quam mortisagi, ut dicitur, metus; qui parvulum licet insectum, ruris quietem perturbare, vanisque et falsis terroribus totum pagum solebat implere. Dominatur etiam nunc in populorum animis superstitiosa ista solicitudo, nequiitque sugare has tenebras quod jam sere per totum orbem dissunditur scientiæ et veritatis lumen. Fatendum quidem est, illis qui in pane quotidiano comparando totum fere tempus

terere

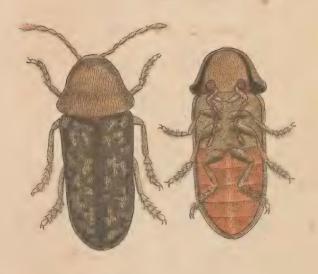
terere coguntur, deeffe tum otium tum mentem ut in causam peculiaris alicujus sonitus accurate philosophiceque inquirant: mirum tamen est insectum commune non penitius cognosci, nec melius intelligi unde sonitus exoriatur.

Vere jam provecto, mutuo se convocare solent formidata hæc animalcula, eodem fere modo quo aves; licet non sit vera vox, sed pulsatio capitis clypeati in duram aliquam substantiam. Audiuntur ictus septies, novies, vel undecies; quod ipfum fortaffe majorem vulgo metum incutit. Repetuntur fonitus celeriter, incertis intervallis, et in domibus antiquis, ubi maxima est Mortisagorum copia, per totum fere diem possunt audiri; præsertim si calidior sit aeris temperies. Exacte imitari poteris hos ictus fi unguem modice in menfam impingas. Cum colori ligni veteris fimillimus fit color mortifagi, inquirentis oculus diu eluditur. Longus est circiter quadrantem unciæ, modica crassitie. Ad coleoptera pertinet, quorum nempe alæ elytris seu tegumentis corneis munitæ funt; licet enim rarissime volet, volatilis est. Referri debet proculdubio ad genus Ptinus dictum. Miror nec inveniri eum in editione duodecima systematis naturæ Linnæi, nec in opere entomologico Fabricii, ni forte Dermestes tesselatus idem sit, quod fi fiat, erravit Fabricius in genere. In volumine vigefimo, nec non in vigefimo fecundo Actorum Anglicorum, nec male, describitur, additis observationibus celeberrimi Derhami, qui de animalculi forma moribusque recte differuit. Vereor ne quod falsum et ineptum fit afferere videar, cum dicam posse mortisagum, in pyxide fervatum, ad id mansuetudinis et docilitatis perduci, ut mensæ impositus pulsanti alicui prompte respondeat.

respondeat. Cavendum est ne hoc insectum, (quod verus est rusticorum mortisagus pulsatorius,) cum alio consundamus, quod interdum eodem nomine dicitur, quodque horologii more diu et sine ulla intermissione sonum edit; pertinet enim hoc ad ordinem penitus diversum, nomine Termitis pulsatorii a Linnæo distinctum. Claudet hanc Mortisagi descriptionem quod in opere celeberrimo, Pseudodoxia scilicet Epidemica, observavit vir doctissimus Thomas Brown. "Qui ab animis populi unicam hanc superstitionem postet evellere, ille prosecto a pavidis nutricum et aviarum capitibus sudoris multum gelidi depelleret."











London, Buttished May At 1702 by F. P. Solder of C. V. 15 Brewer Siver . >

# BEATING PTINUS,

OR

# DEATH-WATCH.

**○**◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆

### GENERIC CHARACTER.

Antennæ filiform; the last joints larger than the others.

Thorax roundish, immarginated, receiving the head.

# SPECIFIC CHARACTER, &c.

Dufky and fomewhat hairy PTINUS, with irregular grey-brown fpots.

## THE DEATH-WATCH.

Phil. Trans. vol. 20. p. 376. vol. 22. p. 832.

Amongst the popular superstitions which the almost general illumination of the present century has not been able to obliterate, the dread of the Death-watch may well be considered as one of the most predominant; which, though nothing more than a small insect, still continues to disturb the habitations of rural tranquillity with groundless fears and absurd apprehensions.

It is not indeed to be imagined that they who are engaged in the more important cares of providing the immediate necessaries of life should have either leifure or inclination to investigate with philosophic exactness the causes of a particular found: yet it must be allowed to be a very fingular circumstance that an animal fo common should not be more universally known, and the cause of the particular noise which it occasionally makes, be more generally understood. It is chiefly in the advanced state of spring that this alarming little being commences its found; which is no other than the call or fignal by which the infects of this species mutually attend to each other, and which may be confidered as analogous to the call of birds; though not owing to the voice of the infect, but to its beating on any hard fubstance with the shield or fore part of its head. The prevailing number of diffinct strokes which it beats, is from feven to nine or eleven, which very circumstance may perhaps still add in some degree to the ominous character which the animal bears amongst the vulgar. These founds or beats are given in a pretty quick succession, and are repeated at uncertain intervals; and in old houses where the infects are numerous, may be heard almost every hour of the day; especially if the weather be warm. The found exactly refembles that which may be made by beating moderately hard with the nail on a table.

The infect is of a colour fo nearly refembling that of decayed wood, viz. an obscure greyish brown, that it may for a considerable time elude the search of the inquirer. It is about a quarter of an inch in length, and is moderately thick in proportion. It belongs

to the class of coleopterous infects, or such as have horny or shelly sheaths defending their wings, for it is a winged infect, though rarely feen in flight. The genus to which it unquestionably belongs is that of Ptinus; but it is remarkable that it does not occur in the twelsth edition of the Systema Naturæ of Linnæus; nor has Fabricius distinctly mentioned it in his entomological works, unless his Dermestes tesselatus be intended for the fame infect, in which case he must have placed it in a wrong genus. In the twentieth and twenty-fecond volumes of the Philosophical Transactions it has been long ago described, and some very just observations made relative to its habits and general appearance, by the celebrated Mr. Derham, and it is extremely fingular that fo remarkable an infect should have almost escaped the notice of more modern entomologists. Ridiculous, and even incredible as it may appear, it is an animal that may in some measure be tamed; at least it may be so far familiarized as to be made to beat occasionally, by taking it out of its confinement and beating on a table or board, which it readily answers, and will continue to beat as often as required.

We must be careful not to confound this insect, which is the real Death-watch of the vulgar, (emphatically so called,) with another insect, which makes a found like the ticking of a watch, and which continues its found for a long time without intermission: it belongs to a totally different tribe from the Deathwatch, and is the Termes pulsatorium of Linnæus. I shall conclude this description of the Death-watch by a sentence from the celebrated work Pseudodoxia Epidemica,

Epidemica, or Vulgar Errors, by the learned Sir Thomas Brown, who expresses himself in some such words as these. "He that could eradicate this error from the minds of the people would save from many a cold sweat the meticulous heads of nurses and grandmothers."

# LOXIA CARDINALIS.

◇\*

#### CHARACTER GENERICUS.

Roftrum conico-gibbum, frontis basi rotundatum versus caput: Mandibula inferior margine laterali inflexa.

Nares in basi rostri. Lingua integra.

Lin. Syst. Nat. p. 299.

CHARACTER SPECIFICUS, &c.

LOXIA CRISTATA RUBRA, capiftro nigro, roftro pedibufque fanguineis.

Lin. Syst. Nat. p. 300.

COCCOTHRAUSTES RUBRA.

Catefb. Carol. 1. p. 38. t. 38.

COCCOTHRAUSTES VIRGINIANA CAR-DINALIS dica.

Briff. av. 3. p. 252.

LOXIA CARDINALIS.

Lath. ind. orn. p. 375.

E calidioribus Americæ Septentrionalis partibus in Europam jamdudum illata est Loxia Cardinalis. Ob colorem lautum splendidumque vocemque potentem et suaviloquam apud nos magni semper habita est, nec defunt qui eam ipsi lusciniæ vix ac ne vix cedere existimant. Ingenio est alacri, vivido, docilique.

# CARDINAL GROSBEAK.

GENERIC CHARACTER.

Bill strong, thick, and convex. Nostrils small.

Tongue truncated.

SPECIFIC CHARACTER, &c.

CRESTED RED GROSBEAK with black frontlet.

VIRGINIAN NIGHTINGALE.

Raii. Syn. p. 85. Will. orn. p. 245. pl. 44.

CARDINAL GROSBEAK.

Lath. Syn. 2. p. 118.

The bird here figured is a native of the warmer parts of North America, from whence it was imported foon after the first discovery of that continent; and from the glowing splendor of its colour, and the extraordinary powers of its note, soon became a distinguished favorite in Europe. It is even by some considered as scarce inferior to the nightingale. It is a bird of a lively nature, and possesses a considerable degree of docility.





# ISIS HIPPURIS.

### CHARACTER GENERICUS.

Flores Hydræ, sparsi e floribus lateralibus. Stirps radicata, lapidea, rigida, sæpe articulata. Lin. Syst. Nat. p. 1287.

## CHARACTER SPECIFICUS, &c.

ISIS stirpe corallina, articulis striatis, geniculis attenuatis.

Lin. Syst. Nat. p. 1287.

## ACCABARIUM ALBUM.

Rumpf. Amb. 6. p. 228. t. 84.

## HIPPURIS SAXEA.

Clus. exot. 124.

LITHOPHYTON articulatum internodiis striatis.

Gualt. test. 118. fig. 16.

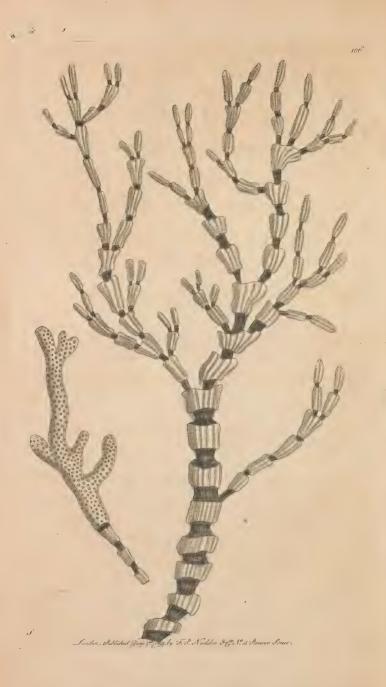
Jactare fane possunt perpauca Lithophyta elegantiorem faciem quam hæc, de qua jam agitur, species. Ne quid enim dicam de ramulorum pulchritudine, bella est oppositio albarum expansarumque partium, nigrorumque quibus connectuntur geniculorum. Notandum tamen est pulchrum hunc aspectum non esse ipsius na-

0 2

turæ;

turæ; hæc enim vestivit isidem cortice albo et spongioso, foraminibus parvulis creberrime excavato, in quibus, cum adhuc recens sit lithophytum, habitant animalia polypos referentia, quæ ipsum corallium ædisicasse creduntur. Crescit Isis Hippuris in variis mundi partibus, in mari præcipue Indico. Diversæ extat magnitudinis, alta interdum paucas uncias, interdum duos fere pedes.





# BLACK-AND-WHITE ISIS,

## JOINTED CORAL.

**~**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### GENERIC CHARACTER.

The Coral having the habit or appearance of a plant.

The Stem or internal part differing in the different fpecies, and generally either of a horny or a ftony appearance.

The cortical part foft, and inhabited by animals refembling polypes.

## SPECIFIC CHARACTER, &c.

ISIS with white striated joints and black junctures. PIED JOINTED CORAL.

BLACK AND WHITE JOINTED CORAL.

Ellis. Zooph. p. 105. t. 3.

Few, if any, of the Lithophytes can boast a more elegant appearance than the present species; which, exclusive of the neatness of its ramifications, is distinguished by the agreeable contrast between the white expanded parts and the black internodia by which they

are united. It is to be observed, however, that this beautiful appearance is very different from that of the same coral in its natural state; in which it is coated over by a fost or spongy whitish part, thickly marked with small foramina, which in the recent Lithophyte are the habitations of so many animals resembling polypes; the supposed fabricators of the coral. The Isis Hippuris is produced in several parts of the world, but is chiefly found in the Indian seas. It is sound of various sizes, from a few inches to nearly two feet in height.

## CERCARIA MUTABILIS.

**\*** 

#### CHARACTER GENERICUS.

Vermis nudo oculo inconspicuus, subpellucidus, caudatus.

## CHARACTER SPECIFICUS, &c.

CERCARIA VIRIDIS, (interdum rubra,) corpore cylindraceo mutabili, cauda acuminata fub-bifida.

## CERCARIA VIRIDIS?

Müll. anim. infus. p. 126. tab. 19. fig. 6——13.

Oftenditur in tabula animalculum, fitu varium, microscopio summopere auctum. Hujusmodi astivis mensibus densissima super paludes conglomerantur agmina, adeo ut interdum tota superficies rubra videatur seu viridis; alias ipsius aquæ corpus vel hoc vel illo colore non leviter tingatur. Forma limaci, motu hirudini similior est cercaria. Cum huic, ut et aliis multis animalculis, summa sit contractionis vis, hinc sit ut nunc fere in orbem colligatur, nunc in diversimos longitudinis gradus ad libitum extendatur. Motu incedit tardiusculo; cumque natet penitus explicata, utraque extremitas pellucida videtur, corpusque granulis virentibus aut rubellis, piscium ova non male referentibus, refertum.

refertum. Caput seu anterior pars obtusior, cauda autem acuta, apicem interdum levissime bifurca; quod tamen vix ac ne vix conspici possit. Cum in reliquis omnibus prorsus conveniant cercariæ in tabula depictæ, nisi quod hæ sint rubræ, illæ virides, nolumus ob solam coloris differentiam vere distinctas pronunciare. Virides sæpissime mensibus Maii et Junii, interdum citius, mane plerumque et vespere aquarum stagnantium superficiem occupant, medio die fundum petentes. Rubræ, quæ longe rariores, aquas nonnunquam quafi in fanguinem convertunt; narrantque auctores univerfos populos hoc figno ingenti stupore perculsos: quod fane vulgo facile condonari possit; causam enim sæpisfime ignorent necesse est, cum ipsa animalcula fine microfcopii ope non nifi acutissimo oculo conspici posfint. Vidi egomet non femel magnam paludem una nocte rubore obductam et sanguine veluti perfusam, cujus die proxime elapso ne minimum erat vestigium. Notandum est etiam eodem fere modo, licet minus, decolorari paludes a monoculo pulice Linnæi, nec-non a larva culicis communis, aliifque multis. Quid igitur mirum, anteactis temporibus, cum adhuc curta effet philosophia, vitrique optici ignoraretur usus, si homines vani et meticulofi aquas fanguineum rubentes conspicati, Deos illico infestos et præsens aliquod exitium pertinuerint? Immo narrat celeberrimus Swammerdamus totam Lugduni civitatem hac ipsa re supra modum attonitam, aquis primo mane immenfo (ut postea compertum est) animalculorum agmine quasi cruentatis: nec dubitamus quin species eadem fuerit cum hac nostra quam descripsimus. Hoc præterea omine turbatos Romanorum animos, inter alia quæ Cæfaris

Cæfaris fatum aut præibant aut sequebantur portenta, memoravit Virgilius.

Tristibus aut extis fibræ apparere minaces, Aut puteis manare cruor cessavit."







London , Published June Ango, by F. P. Nodder Of? Nos Brewer Street .

#### THE

## CHANGEABLE CERCARIA.

<u></u>

#### GENERIC CHARACTER.

Worm unobservable by the naked eye, somewhat pellucid, tailed.

#### SPECIFIC CHARACTER.

GREEN CERCARIA, (fometimes red,) with cylindric mutable body, and flightly bifid pointed tail.

The animalcule of which microscopical figures, very highly magnified, are represented on the annexed plate, is amongst those legions of animated beings which, in the warmer months, contribute to people the generality of stagnant waters; sometimes covering the whole surface with a continued sheet of a red or green colour, and sometimes diffusing a strong tinge of those colours throughout the whole mass or body of the water. The general shape of this animalcule is not much unlike that of a slug, but its motions are more analogous to those of a leech. In its postures it is infinitely variable, possessing, like many others of the animalcular

animalcular tribe, the highest degree of contractile power; in confequence of which it occasionally appears in all the various states of elongation and contraction represented in the plate; and not unfrequently reduces itself to a globular form. Its motions are rather flow than swift, and when swimming at full length it generally appears trans arent at both extremities, while the body feems filled with a congeries of globules or grains of a green or reddish colour, and not ill refembling the spawn of fish. The head or fore-part is obtufe, but the tail or extremity is acute, and fometimes exhibits a flight appearance of bifurcation at the tip; but this is a particular which in general is scarce to be perceived. The difference in colour between these animalcules feems hardly fufficient to justify our regarding them as specifically distinct; since both the green and the red fort are fo perfectly alike in other respects that no difference can be perceived between them. The green fort may be very frequently observed in most stagnant waters in the months of May and June. and fometimes much fooner, appearing commonly on the furface in the evening and early in the morning, and retiring towards the middle of the day to the bottom. The red variety is far lefs common, and the appearance which it fometimes exhibits is fuch as to alarm a superstitious mind with the idea of the water being tinged with blood: a panic of which numerous inflances have been adduced by authors; and which is the more excuseable in those who are ignorant of the cause, as the animalcules are so extremely minute as to be utterly imperceptible, (except to an uncommonly fharp

tharp eye,) without the affistance of a glass; so that even taking up the water and examining it affords to the vulgar no satisfactory elucidation. I remember to have more than once observed the whole surface of a large moat or pool completely covered in the space of a single night with this animalcule, when the day before there was not the least appearance of discoloration in the water: the whole surface appeared as if covered with florid blood. It should be observed that several other species of animalcules sometimes give the same tinge to stagnant waters, though in a far less striking degree: thus the monoculus pulex of Linnæus is frequently so numerous as to redden the water: the larva of the common gnat has also been known to produce a similar discoloration.

These are appearances which in less enlightened ages, unaffifted by the microscope, have so often filled the minds of the people with the most terrible apprehensions, and have been regarded either as the precursors of some great calamity, or magnified into the immediate fymptoms of heavenly displeasure. We are affured by the celebrated Swammerdam that the city of Leyden was in a state of consternation on discovering one morning that the waters of that place were apparently changed into blood; which, upon accurate examination, was found to be owing to no other cause than prodigious numbers of minute red animalcules, (in all probability of the very same species here reprefented.) For the effect which fuch appearances produced on the minds of the ancients, it may be sufficient to recal to the recollection of the reader the words of Virgil,

Virgil, who, in his terrific lift of prodigies which either preceded or accompanied the death of Julius, has not neglected to enumerate this phænomenon.

Tristibus aut extis fibræ apparere minaces, Aut puteis manare cruor cessavit."

The trembling priest o'er boding victims stood, And wells, portentous omen! slow'd with blood.

## ANAS PLUTONIA.

**•** 

#### CHARACTER GENERICUS.

Rostrum lamelloso-dentatum, convexum, obtusum. Lingua ciliata, obtusa.

Lin. Syst. Nat. p. 194.

#### CHARACTER SPECIFICUS.

ANAS NIGRA, remigibus albis.
ANAS ATRATA?

Lath. ind. orn. p. 834.

Cum ipfa nive candidior fit cycnus communis, colorque ei constans semper fuerit et perpetuus, mirum fortasse sont ausit cycnus niger. Nemo tamen sanus unquam dubitaverit quin e numerosissimo genere anatino exstare posset alicubi in terris species quæpiam distincta, quæ forma licet modoque vivendi cycno candido simillima, a natura tamen colorem prorsus contrarium fortita sit. Hæc jam tandem comperta est in Nova Hollandia insulisque adjacentibus, quamque tabula sideliter depictam ostendit. Si nigredinem excipias, convenit huic in reliquis fere omnibus cum cycno Europæo. Idem ei natanti decor, eadem nec ingrata superbia, variique corporis

fitus. Tota avis, remigibus albis exceptis, coloris eft aterrimi. Rostrum amoenissime rubrum, cute implumi, quæ basin cingit, super frontem late et ultra oculos excurrente. Apici mandibulæ superioris nigricanti prope adjacet macula slava. Crura nigra, pedes paulo pallidiores.

Amicissime nobiscum communicavit exemplum sideliter depictum, unde siguram hanc nostram mutuati sumus, Thomas Wilson armiger, quod ei nuperrime miserat cum aliis multis hujusmodi cimeliis Dominus White, Novæ Hollandiæ chirurgus præcipuus.





London : Published July 190 1792, by F. P. Noddor & C. N. 15 Brewer Street.

## BLACK SWAN.

**\***\*\*\*\*\*\*\*\*\*\*\*\*\*

#### GENERIC CHARACTER.

Bill broad and flattened; the edges marked with sharp lamellæ.

Tongue broad and ciliated at the edges.

#### SPECIFIC CHARACTER.

BLACK SWAN with white remiges.

To vulgar ears a black fwan has the found of a miracle: but this arises merely from annexing the proverbial name to the common fwan, fo emphatically diftinguished by its constant snowy plumage, from which it was never known to vary: but no one could ever rationally be supposed to call in question the possible existence of some distinct species of this numerous genus, which, however nearly allied in point of fize and habit to the common swan, might yet be naturally black. In fact fuch a species is now discovered. It is a native of New Holland, and the neighbouring islands, and is accurately reprefented on the plate annexed. In general appearance it bears the most striking refemblance to the common fwan, and is remarkable for all those gracefully-varying attitudes which so eminently diftinguish P 2.

distinguish the European species. The whole bird. except the long wing-feathers, which are white, is of the deepest and fullest black: the beak is of a fine red. and the skin furrounding the base is continued high over the forehead and beyond the eyes: the tip of the upper mandible is blackish, and near the tip is a spot of yellow. The legs are black; the feet fomewhat paler.

The original drawing of this most curious bird, accurately taken from the life, and from which the prefent figure is copied, was obligingly communicated by Thomas Wilson, Esq. of Gower Street, to whom it was fent, together with many other non-descript animals, &c. by Mr. White, chief furgeon to the English fettlement at New South Wales.

### MYRMECOPHAGA ACULEATA.

<del>\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*</del>

CHARACTER GENERICUS.

Dentes nulli.
Lingua teres, extenfilis.
Os angustatum in rostrum.
Corpus (plerisque) pilis tectum.

CHARACTER SPECIFICUS.

MYRMECOPHAGA ACULEATA, cauda bre-viffima.

Digna est quæ penitius examinetur hæc species, non modo quod nova prorfus fit et adhuc inaudita, fed quod in ea infigne detur exemplum miræ istius gradationis qua genera diversissima interdum sibi invicem appropinquant. Vinculum videtur effe hæc quo connectuntur genera satis distincta Hystricis et Myrmecophaga, cum enim huic fit facie vestituque fimilior, illius habet rostrum verosque characteres. Pedem circiter unum longa est, quatenus a speciminibus adhuc visis colligi possit: deest igitur figuræ nostræ plusquam dimidia pars magnitudinis naturalis. Totum corpus fuperius cum cauda spinis contegitur validis et longioribus, quales omnino funt hyftricis vulgaris, nifi quod vice circulorum qui alternatim albi nigrique, plerumque albeant, apicibus altius nigro tinctis, quodque alhedo

albedo a nigredine separetur annulo parvo fordide aurantio. Aliæ vero spinæ totæ albent, si excipias extremitates levissime nigricantes. Caput, crura, corporisque partes inferiores e fusco nigricant, vestiunturque pilis seu setis potius densissimis. Caudæ brevioris apicem denudatæ et paululum complanatæ superficies superior spinis contegitur perpendicularibus, illas saltem longitudine æquantibus quæ in dorso cernuntur. Roftrum longum, nudum, nigrum, tubulatum, eodem modo formatum quo rostrum Myrmecophagæ jubatæ, in apice rictum habet minimum, unde lingua lumbriciformis longe protruditur, qualis est etiam Myrmecophagarum. Nares parvæ, ad extremum roftri fitæ. Oculi minimi, nigri, iride cærulea. Crura brevissima, craffissima, digitis quinque instructa. Pedum anticorum digitis funt ungues quinque validissimi, longi, obtusiusculi, nigricantes: posticorum quatuor tantum (pollex enim cæteris latior, unque caret,) quique differunt inter se: prior scilicet est longissimus, paululum curvatus, et acutus; fecundus paulo brevior, fed fimiliter formatus; reliqui duo multo breviores, aliquatulum curvi, et obtufiusculi. Vivit proculdubio hæc species more aliarum Myrmecophagarum, in tumulo enim quem congesserant formicæ primo deprensa est, ideoque nomine Hyftricis formicariæ distincta. Ad nos a Nova Hollandia allata est.

Cum nuperrime detectum sit hoc animal, neminem scientia naturali vel leviter imbutum latere possit minus quam antea convenire Linnæanos characteres generi Myrmecophagæ. Cum igitur quæ in generibus Manis et Myrmecophagæ continentur animalia vestitu solo disserant, huic enim corpus squamosum, illi pilosum; satius forsan

forsan foret duo hæc genera conjungere, annumerata iis novissima hac specie, et ex parte characterum dicere Corpus vel pilis vel squamis vel aculeis vestitum: ni novum omnino genus instituatur, a generibus Manis et Myrmecophagæ in hoc tantum discrepans, quod nec squamis, nec pilis, sed aculeis contegatur.

#### THE

## PORCUPINE ANT-EATER.

**\*** 

#### GENERIC CHARACTER.

Body (in most species) covered with hair. Snout tubular; mouth small; no teeth. Tongue cylindric, long, extensile.

SPECIFIC CHARACTER.

SPINY ANT-EATER with very short tail.

This extraordinary animal may well be confidered amongst the most curious and interesting quadrupeds yet discovered; since it is not only an absolutely new and hitherto unknown species, but is also a most striking instance of that beautiful gradation, so frequently observed in the animal kingdom, by which creatures of one tribe or genus approach to those of a very different one. It forms a connecting link between the very distant genera of Hystrix and Myrmecophaga; having the external coating and general aspect of the one, with the mouth and peculiar generic characters of the other. This animal, so far as can be judged from the specimens hitherto observed, is about a foot in length: the figure consequently represents it of nearly half the natural size. The whole upper parts of the body and tail





are thickly coated with ftrong, sharp spines, of a confiderable length, and perfectly refembling those of the common porcupine, except that instead of being annulated with feveral alternate rings of black and white. as in that animal, they are mostly white, with black tips, the colour running down to fome little diffance on the quill, and being separated from the white part by a circle of dull orange: others are entirely white, or at least have but a slight appearance of black towards the tips. The head, legs, and whole under parts of the body are of a deep brown or fable, thickly coated with ftrong, close-set, briftly hair. The tail is short, bare, flightly flattened at the tip, and coated on the upper part of the base, with spines at least equal in length to those of the back, and feated perpendicularly upwards. The fnout is long and tubular, and perfectly refembles in ftructure that of the Myrmecophaga jubata, or great ant-eater; having only a very fmall opening or rictus at the tip, from whence is protruded a long lumbriciform tongue, as in the ant-eaters. The nostrils are fmall, and feated near the extremity of the fnout. The eyes are very fmall, and black, with a pale-blue iris. The legs are very short and thick, and are each furnished with five rounded broad toes: on the fore feet are five very ftrong, long, and blunt claws, of a black colour; feated on each toe. On the hind-feet are only four claws, the thumb, which is broader than the rest of the toes, being destitute of a claw. The first claw on the hind-feet is extremely long, fomewhat curved, and sharp-pointed; the next rather shorter, but of similar appearance; the two remaining ones far shorter, very flightly curved, and not sharp-pointed.

In its mode of life this animal beyond a doubt refembles the Myrmecophagæ, having been found in the midst of an ant-hill; for which reason it was named by its first discoverers the ant-eating porcupine. It is a native of New Holland.

It cannot escape the observation of every scientific naturalist, that in confequence of the discovery of this curious animal, the Linnæan character of the genus Myrmecophaga is in part rendered inapplicable. Since therefore the animals in the genera of Myrmecophaga and Manis differ only in the external coating of the body, the former being covered with hair and the latter with scales, it would perhaps be not improper to conjoin the two genera, to add this as a new species, and to give as part of the generic character Corpus pilis, squamis, vel aculeis tectum. But if this be not done, it would perhaps be proper to make this animal conflitute a new genus, which would differ from the genera of Manis and Myrmecophaga in having the body coated with aculei, instead of hair as in the Myrmecophaga, or of scales as in the Manis.

## CICADA PLEBEIA.

**•** 

#### CHARACTER GENERICUS.

Rostrum inflexum.

Antennæ setaceæ.

Alæ quatuor, membranaceæ, deslexæ.

Pedes (plerisque) saltatorii.

Lin. Syst. Nat. p. 705.

## CHARACTER SPECIFICUS, &c.

CICADA scutelli apice bidentato, elytris anastomosibus quatuor, lineisque sex ferrugineis. Lin. Syst. Nat. p. 707.

Mouss. ins. 127. Adr. ins. 307. Matth. Diosc. 264.

Cicada, quam sæpissime memorant poetæ antiqui, quamque communiter cum gryllo vulgari seu campestri confundunt plerique interpretes, Europam incolit calidiorem, in Italia et Græcia, ut plurimum reperta. Species notissima, seu cicada plebeia Linnæi quam depinximus, æstate calidissima conspicitur, ramoque insidens per totum fere diem stridulum canit et acutum. In Italia est altera species, (quæ cicada orni Linnæi) huic simillima, sed minor. Majorum cicadarum variæ sunt

funt species, adeo inter se similes, ut revera licet diversæ, easdem tamen putarent incuriosi spectatores. Omnes ab ovis originem ducunt, quæ deponunt parentes in arborum radicibus juxta terram, quæque in larvas excluduntur, a veteribus scriptoribus Tettigometrarum nomine distinctas. Peracto duorum annorum spatio, exuvias ponunt larvæ, persectumque nascitur insectum. Figura tertia Tettigometram seu larvam cicadæ plebeiæ monstrat. Notandum est in Britannia plurimas esse cicadarum species; parvulæ tamen sunt, nec vocem seu stridorem notabilem emittunt.





UN

#### THE

## COMMON CICADA.

<del>\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*</del>

#### GENERIC CHARACTER.

Beak inflected.
Antennæ setaceous.
Wings four, membranaceous, deflected.
Feet (in most species) formed for leaping.

#### SPECIFIC CHARACTER.

CICADA with the scutellum bidentated at the tip, the elytræ marked with four anastomoses and six ferruginous lines.

The Cicada, so often commemorated by the ancient poets, and so generally consounded by the major part of translators with the grasshopper, is a native of the warmer parts of Europe, and is particularly plentiful in Italy and Greece. The most common species, or cicada plebeia, here represented, appears in the hotter months of summer, and continues its shrill chirping during the greatest part of the day; sitting amongst the leaves of trees. In Italy there is another species, (the cicada orni, Lin:) which bears a very great general resemblance to the former but is considerably less: indeed amongst the larger cicadæ there are several forts, which,

which, though really diftinct, are yet so very nearly allied to each other, as to be easily regarded, on a cursory view, as the same species. All the cicadæ proceed from eggs, which are deposited by the parent insects in and about the roots of trees, near the ground: they hatch into larvæ, which, when grown to a certain size, are the Tettigometræ of the older writers. These larvæ, after having continued in this state two years, cast their skins and produce the complete insect. Fig. 3. shews the larva or Tettigometra of the cicada plebeia. I should observe that in our own country we have several species of this genus, which however are extremely small, and are not distinguished by any sound sufficient to excite attention.

## INDEX.

## PL. AMPHISBÆNA rofea.

10lea.

108. Anas Plutonia.

101. Argonauta Argo.

103. Asterias Caput Medusæ.

99. Cafuarius Australis.

94. Coluber naficornis.

107. Cercaria mutabilis.

102. Certhia Cardinalis.

75. Certhia coccinea.

110. Cicada plebeia.

106. Isis Hippuris.

82. Isis nobilis.

83. Lacerta varia.

89. Lacerta unistriata.

105. Loxia Cardinalis.

79. Madrepora Fungites.

95. Mantis strumaria.

78. Merops fuperbus.

91. Monoculus Polyphemus.

109. Myrmecophaga aculeata.

77. Papilio Helena.

92. Papilio Ulysses.

85. Phalangium cancroides.

90. Platalea Ajaja.

87. Pfittacus concinnus.

93. Pfittacus eximius.

96. Pfittacus pulchellus.

104. Ptinus fatidicus.

76. Rana cornuta.

80. Scarabæus Goliathus.

100. Scorpio Afer.

97. Silurus Callichthys.

84. Tetrao Porphyrio.

81. Troheilus multicolor.

98. Tubipora musica.

88. Xiphias platypterus.

#### INDEX.

PL. AMPHISBÆNA

rofe-coloured.

103. Asterias Medusa-Head.

109. Ant-Eater Porcupine.

80. Beetle fork-headed.

78. Bee-Eater fuperb.

77. Butterfly black-and-gold.

92. Butterfly radiated.

99. Cassowary Southern.

107. Cercaria changeable.

75. Creeper scarlet.

102. Creeper Cardinal.

110. Cicada common.

82. Coral common red.

106. Coral black-and-white.

104. Death-watch.

76. Frog horned.

105. Grofsbeak Cardinal.

81. Humming-bird Harlequin.

89. Lizard fingle-striped.

83. Lizard variegated. 95. Mantis broad-breafted.

79. Madrepore Mushroom.

91. Monoculus Indian.

tot. Nautilus paper.

96. Parrakeet turcosine.

87. Parrakeet crimfon-fronted.

93. Parrot nonpareil.

84. Partridge violaceous.

85. Phalangium cancroid.

100. Scorpion African.

97. Silurus wandering.

94. Snake horn-nose.

90. Spoon-bill rofe-coloured.

88. Sword-Fish broad-finned.

108. Swan black.

98. Tubipore crimson.



